

Amended Results Report

Order ID: 0105452

NEFCO 97 East Howard Street Quincy, MA 02169

Project: NEFCO Monthly 97 East Howard Street Quincy, MA 02169

Attn: Jordan Dimitrov

Regulatory ID:

Sample Number: 0105452-01 Collector: JGD			Class A EQ Biosolidet Date: 10/29/2020		Samp Samp	le ID: le Typ	site			
Department / Test / Parameter	Result		Units	Method	R.L.	DF	Prep Date	Ву	Analysis Date	Ву
<u>Inorganics</u>										
Chloride	0.148		% dry	EPA 300.0	0.00523	1	11/02/20	EJJ	11/03/20 6:53	EJJ
Corrosivity (pH)										
Corrosivity, pH (pH Units)	6.49		N/A	SW 846 9045D		1	11/02/20	YTM	11/02/20 10:32	YTM
Corrosivity, Temperature (C)	19.5		N/A	SW 846 9045D		1	11/02/20	YTM	11/02/20 10:32	YTM
Nitrate as N	< 10.5		mg/kg dry	EPA 300.0	10.5	1	11/02/20	EJJ	11/03/20 6:53	EJJ
Total Kjeldahl Nitrogen (TKN)	4.44		% dry	EPA 351.2	0.690	100	11/11/20	ZJH	11/13/20 16:05	DWL
Total Organic Nitrogen (TON) As	3.91		%	Calculation		1	11/17/20	YTM	11/17/20 10:46	YTM
Received Total Solids	95.3		%	SM 2540-G		1	11/03/20	YTM	11/03/20 14:52	YTM
Volatile Solids	55.4		%	SM 2540-G		1	11/03/20	YTM	11/04/20 11:08	YTM
Metals										
Sulfur	2.2		%	SW846 6010C	0.00061	2	11/10/20		11/11/20 10:04	SUB*
Aluminum	6530		mg/kg dry	SW 846 6010D	13.1	1	11/06/20	RJS	11/10/20 14:16	RJS
Arsenic	5.34		mg/kg dry	SW 846 6010D	0.656	1	11/06/20	RJS	11/10/20 14:16	RJS
Cadmium	2.10		mg/kg dry	SW 846 6010D	0.131	1	11/06/20	RJS	11/10/20 14:16	RJS
Calcium	15100		mg/kg dry	SW 846 6010D	131	1	11/06/20	RJS	11/10/20 14:16	RJS
Chromium	48.4		mg/kg dry	SW 846 6010D	2.62	1	11/06/20	RJS	11/10/20 14:16	RJS
Cobalt	2.37	J	mg/kg dry	SW 846 6010D	1.31	1	11/06/20	RJS	11/10/20 14:16	RJS
Copper	559	B1	mg/kg dry	SW 846 6010D	0.131	1	11/06/20	RJS	11/10/20 14:16	RJS
Iron	44100		mg/kg dry	SW 846 6010D	131	10	11/06/20	RJS	11/12/20 14:12	RJS
Lead	113		mg/kg dry	SW 846 6010D	0.656	1	11/06/20	RJS	11/10/20 14:16	RJS
Magnesium	5940		mg/kg dry	SW 846 6010D	131	1	11/06/20	RJS	11/10/20 14:16	RJS
Manganese	357		mg/kg dry	SW 846 6010D	0.656	1	11/06/20	RJS	11/10/20 14:16	RJS
Mercury	0.920		mg/kg dry	SW 846 7471B	0.0219	1	11/02/20	MKR	11/02/20 14:41	RPV
Molybdenum	40.5		mg/kg dry	SW 846 6010D	2.62	1	11/06/20	RJS	11/10/20 14:16	RJS
Nickel	22.5		mg/kg dry	SW 846 6010D	2.62	1	11/06/20	RJS	11/10/20 14:16	RJS
Potassium	0.113		% dry	SW 846 6010D	0.0131	1	11/06/20	RJS	11/10/20 14:16	RJS
Selenium	7.66	J	mg/kg dry	SW 846 6010D	0.656	1	11/06/20	RJS	11/10/20 14:16	RJS
Sodium	1560		mg/kg dry	SW 846 6010D	131	1	11/06/20	RJS	11/10/20 14:16	RJS
Zinc	1340		mg/kg dry	SW 846 6010D	26.2	1	11/06/20	RJS	11/10/20 14:16	RJS

Pesticide/PCB

Report Generated On: 11/20/2020 2:54 pm 0105452

> STL_Results Revision #1.9 Effective: 04/16/2020







Sample Number: 0105452-01 Collector: JGD		Class A EQ Biosoli Date: 10/29/202		Sampl Sampl		ite			
Department / Test / Parameter	Result	Units	Method	R.L.	DF	Prep Date	Ву	Analysis Date	Ву
Pesticide/PCB (Continued)									
PCBs, 8082									
Aroclor 1016	< 526	μg/Kg dry	SW846 3550C/8082A	526	10	11/02/20	TBH	11/02/20 21:36	CEK
Aroclor 1221	< 526	μg/Kg dry	SW846 3550C/8082A	526	10	11/02/20	TBH	11/02/20 21:36	CEK
Aroclor 1232	< 526	μg/Kg dry	SW846 3550C/8082A	526	10	11/02/20	TBH	11/02/20 21:36	CEK
Aroclor 1242	< 526	μg/Kg dry	SW846 3550C/8082A	526	10	11/02/20	TBH	11/02/20 21:36	CEK
Aroclor 1248	< 526	μg/Kg dry	SW846 3550C/8082A	526	10	11/02/20	TBH	11/02/20 21:36	CEK
Aroclor 1254	< 526	μg/Kg dry	SW846 3550C/8082A	526	10	11/02/20	TBH	11/02/20 21:36	CEK
Aroclor 1260	< 526	μg/Kg dry	SW846 3550C/8082A	526	10	11/02/20	TBH	11/02/20 21:36	CEK
Aroclor 1262	< 526	μg/Kg dry	SW846 3550C/8082A	526	10	11/02/20	TBH	11/02/20 21:36	CEK
Aroclor 1268	< 526	μg/Kg dry	SW846 3550C/8082A	526	10	11/02/20	TBH	11/02/20 21:36	CEK
PCBS, Total	< 526	μg/Kg dry	SW846 3550C/8082A	526	10	11/02/20	TBH	11/02/20 21:36	CEK
Surrogate Recoveries	Results	Units	Method	%Recovery	DF	Limits (%Recov	rery) Analysis I	Date
Surrogate: Tetrachloro-m-xylene	74.1 V3	μg/Kg dry	SW846 3550C/8082A	141%	10	3	5-135	11/02/20 2	21:36
Surrogate: Decachlorobiphenyl	58.2	μg/Kg dry	SW846 3550C/8082A	111%	10	1	0-153	11/02/20 2	21:36
Wet Chemistry									
Ammonia-nitrogen, Total	0.53	%	S4500NH3D-11	0.003	10	11/09/20		11/10/20 23:10	SUB*
Phosphorus, Total	2.5	%	EPA 365.1	0.052	100	11/09/20		11/11/20 11:13	SUB*

Data Qualifiers:

The target analyte was detected in the Method, Dilution Water, Instrument or Extraction Blank at or above the method Reporting Limit,

however it was <10% the concentration detected in the sample. Data may be fully usable under the 2009 TNI Standard.

The analyte was detected above the method detection limit but below the method reporting limit; the reported result is an estimated value.

V3 The surrogate associated with this sample was above established acceptance criteria. Data may be biased high.

Sample Receipt Conditions:

All samples met the sample receipt requirements for the relevant analyses.

Work Order Memo

SUB: SW846 6010C, S4500NH3D-11, EPA 365.1 performed by LAB ID# 22-293 & PA010

** This report has been Amended (Rev1) and replaces all previous reports for this order ID **

Report Generated On: 11/20/2020 2:54 pm 0105452

> STL Results Revision #1.9 Effective: 04/16/2020







The test pH, Lab is performed in the Laboratory as soon as possible. These results are not appropriate for compliance with NPDES, SDWA, or other regulatory programs that require analysis within 15 minutes of sample collection and should be considered for informational purposes only.

*pH, Final for ASTM leachate is performed by method SM 4500-H-B.

All results meet the requirements of STL's TNI (NELAC) Accredited Quality System unless otherwise noted. If your results contain any data qualifiers or comments, you should evaluate useability relative to your needs.

OR. Wag

If collectors initials include "STL", samples have been collected in accordance with STL SOP SL0015.

All results reported on an As Received (Wet Weight) basis unless otherwise noted.

This laboratory report may not be reproduced, except in full, without the written approval of STL.

Results are considered Preliminary unless report is signed by authorized representative of STL.

Reviewed and Released By:

Charles Wanyo Project Manager I

> Report Generated On: 11/20/2020 2:54 pm 0105452

> > STL Results Revision #1.9 Effective: 04/16/2020





Address: 97 East Howard St.

Contact Name: Jordan Dimitrov

Comments:

Quincy, MA 02169

Client Name: New England Fertilizer Company (NE



610-	0105452 Charles V	Vanyo	AT(Check One): Standard 24hr 48hr 72hr Other (Additional charges may apply for rush TAT. If not specified, standard TAT will apply) Order ID:
npany (NE			Nonthly Composite
		Phone: 617-376-2500, x.107	Address: same as client
		Fax: 617-984-0953	
		Email: jdimitrov@nefcobiosolids.com	Payment / P.O. Info: PO: 03071

		0	<u>ت</u>			>	S	ee Cod	es Belo	W	
SWTL Sample Number	Sample Description / Site ID:	Date Sampled	Time Sampled	Samplers Initials	Test(s) Requested:	Bottle Quantity	Matrix	Sample Type	Bottle Type	Preservative	Comments / Field Data:
	Class A EQ Biosolids	10-02-20	01:00	JGD	See attached	1	Solid	Comp	G	0	Need NJ & PA DEP certified
		10-29-20	16:00								
	(1)110029										

Relinquished By:	Date: 29-0cf-2020		Sample Conditions	Matri	ix Key	Bottle Type Key	Reporting Options
1	Time:		Submitted with COC? N	NPW = Non-Potable Wat	ter	P = Plastic	SDWA Reporting
Received By:	16'.40		\perp	Solid = Raw Sludge, Dev (reported as mg/k		G = Glass O = Other	PWSID:
,		Temp °C:	Number of containers match number on COC? Y // N	PW = Potable Water (not		Preservative Key	□Fax
	Time:	Acceptable: Y / N	L A	1	Vater Act Potable Sample	N = Sodium	
Relinquished By:	Date:	Temp °C:	All containers in tact? (Y)N	Sample Type Key	SDWA Sample Types	Thiosulfate A = Ascorbic Acid	Other
	Time:		Tests within holding	G = Grab	D=Distribution	H = HNO ₃	
Received in Lab By:	Date:/// 30/ 30/	Acceptable: Y / N	times // N	8HC = 8 Hr.	E=Entry Point R=Raw	C = HCI $S = H_2SO_4$	Return a copy of this form with Report
QAI (1)	10130120	Temp ºC: 💇 🗸	V	Composite	C=Check S=Special	OH = NaOH O = Other	
M/M	Time: 055	Acceptable: Y	40 mL VOA viats free of headspace?	24HC = 24 Hr. Composite	M=Maximum Residence	NA = None Required	
Signing this form is disease.	130				1	, , , , ,	

Signing this form indicates your agreement with SWTL's Standard Terms and Conditions unless otherwise specified in writing. SLF059 Rev. 1.4 Effective November 12, 2014 Shaded areas are for SWTL use only.



at NEFCO

0105452 Charles Wanyo

This is a monthly composit

Plant, Quincy, MA.

Below are the parameters we need tested for:

Parameter	Abbr	Units
Total Solids	TS	%
Volatile Solids	VS	%
pH Units	рН	
Total Kj. Nitrogen	TKN	%
Ammon. Nitrogen	NH ₃ -N	%
Nitrate Nitrogen	NO ₃ -N	mg/Kg
Organic Nitrogen	Org-N	%
Toțal Phosphorus	P	%
Potassium	K	%
∕Chloride	Cl	%
Total Sulfur	S	%
Çalcium	Ca	mg/Kg
Iron	Fe	mg/Kg
Aluminum	Al	mg/Kg
Arsenic	As	mg/Kg
Çadmium	Cd	mg/Kg
Chromium	Cr	mg/Kg
Cobalt	Co	mg/Kg
Copper	Cu	mg/Kg
Lead	Pb	mg/Kg
Magnesium	Mg	mg/Kg
Manganese	Mn	mg/Kg
Mercury	Hg	mg/Kg
Molybdenum	Mo	mg/Kg
Nickel	Ni	mg/Kg
Selenium	Se	mg/Kg
Sodium Sodium	Na	mg/Kg
Zinc	Zn	mg/Kg
PCBs	PCB	ug/Kg

- Please use Solid Materials Matrix for the testing. I checked the "Solid" matrix for the sample.
- Please, test Total Solids via SM 2540-G, making sure you are certified Lab by NJ DEP and PA DEP for this method.
- Please test Total Phosphorus for solid matrix.
- Please, report the data on a dry weight basis
- Please, make sure the detection limit for Selenium is 0.5 mg/Kg or less

Jordan Dimitrov, NEFCO Environmental Compliance and Lab Mgr

Oct 29, 2020; (617) 376-2500, ext.107, jdimitrov@nefcobiosolids.com, Mon-Fri, 9:30 AM - 5:30 PM_I

Page 5 of 5



The Microbiology Division of Thielsch Engineering, Inc.



CERTIFICATE OF ANALYSIS

Jordan Dimitrov NEFCO 97 East Howard Street Quincy, MA 01148

RE: Biosolids (N/A)

ESS Laboratory Work Order Number: 20J1045

This signed Certificate of Analysis is our approved release of your analytical results. These results are only representative of sample aliquots received at the laboratory. ESS Laboratory expects its clients to follow all regulatory sampling guidelines. Beginning with this page, the entire report has been paginated. This report should not be copied except in full without the approval of the laboratory. Samples will be disposed of thirty days after the final report has been delivered. If you have any questions or concerns, please feel free to call our Customer Service Department.

Laurel Stoddard
Laboratory Director

Analytical Summary

The project as described above has been analyzed in accordance with the ESS Quality Assurance Plan. This plan utilizes the following methodologies: US EPA SW-846, US EPA Methods for Chemical Analysis of Water and Wastes per 40 CFR Part 136, APHA Standard Methods for the Examination of Water and Wastewater, American Society for Testing and Materials (ASTM), and other recognized methodologies. The analyses with these noted observations are in conformance to the Quality Assurance Plan. In chromatographic analysis, manual integration is frequently used instead of automated integration because it produces more accurate results.

The test results present in this report are in compliance with TNI and relative state standards, and/or client Quality Assurance Project Plans (QAPP). The laboratory has reviewed the following: Sample Preservations, Hold Times, Initial Calibrations, Continuing Calibrations, Method Blanks, Blank Spikes, Blank Spike Duplicates, Duplicates, Matrix Spikes, Matrix Spike Duplicates, Surrogates and Internal Standards. Any results which were found to be outside of the recommended ranges stated in our SOPs will be noted in the Project Narrative.

Subcontracted Analyses

BAL Laboratory - Cranston, RI

Fecal Coliform



The Microbiology Division of Thielsch Engineering, Inc.



CERTIFICATE OF ANALYSIS

Client Name: NEFCO Client Project ID: Biosolids

ESS Laboratory Work Order: 20J1045

SAMPLE RECEIPT

The following samples were received on October 29, 2020 for the analyses specified on the enclosed Chain of Custody Record.

Lab Number 20J1045-01

Sample Name EQ Class A Biosolids

Matrix Solid Analysis %S, 9221E



The Microbiology Division of Thielsch Engineering, Inc.



CERTIFICATE OF ANALYSIS

Client Name: NEFCO Client Project ID: Biosolids

ESS Laboratory Work Order: 20J1045

PROJECT NARRATIVE

No unusual observations noted.

End of Project Narrative.

DATA USABILITY LINKS

To ensure you are viewing the most current version of the documents below, please clear your internet cookies for www.ESSLaboratory.com. Consult your IT Support personnel for information on how to clear your internet cookies.

Definitions of Quality Control Parameters

Semivolatile Organics Internal Standard Information

Semivolatile Organics Surrogate Information

Volatile Organics Internal Standard Information

Volatile Organics Surrogate Information

EPH and VPH Alkane Lists

185 Frances Avenue, Cranston, RI 02910-2211

Tel: 401-461-7181

Fax: 401-461-4486



The Microbiology Division of Thielsch Engineering, Inc.



CERTIFICATE OF ANALYSIS

Client Name: NEFCO Client Project ID: Biosolids

ESS Laboratory Work Order: 20J1045

CURRENT SW-846 METHODOLOGY VERSIONS

Analytical Methods

1010A - Flashpoint

6010C - ICP

6020A - ICP MS

7010 - Graphite Furnace

7196A - Hexavalent Chromium

7470A - Aqueous Mercury

7471B - Solid Mercury

8011 - EDB/DBCP/TCP

8015C - GRO/DRO

8081B - Pesticides

8082A - PCB

8100M - TPH

8151A - Herbicides

8260B - VOA

8270D - SVOA

8270D SIM - SVOA Low Level

9014 - Cyanide

9038 - Sulfate

9040C - Aqueous pH

9045D - Solid pH (Corrosivity)

9050A - Specific Conductance

9056A - Anions (IC)

9060A - TOC

9095B - Paint Filter

MADEP 04-1.1 - EPH

MADEP 18-2.1 - VPH

Prep Methods

3005A - Aqueous ICP Digestion

3020A - Aqueous Graphite Furnace / ICP MS Digestion

3050B - Solid ICP / Graphite Furnace / ICP MS Digestion

3060A - Solid Hexavalent Chromium Digestion

3510C - Separatory Funnel Extraction

3520C - Liquid / Liquid Extraction

3540C - Manual Soxhlet Extraction

3541 - Automated Soxhlet Extraction

3546 - Microwave Extraction

3580A - Waste Dilution

5030B - Aqueous Purge and Trap

5030C - Aqueous Purge and Trap

5035A - Solid Purge and Trap

SW846 Reactivity Methods 7.3.3.2 (Reactive Cyanide) and 7.3.4.1 (Reactive Sulfide) have been withdrawn by EPA. These methods are reported per client request and are not NELAP accredited.



The Microbiology Division of Thielsch Engineering, Inc.



CERTIFICATE OF ANALYSIS

Client Name: NEFCO Client Project ID: Biosolids

Client Sample ID: EQ Class A Biosolids

Date Sampled: 10/29/20 11:55

Percent Solids: 95

ESS Laboratory Work Order: 20J1045 ESS Laboratory Sample ID: 20J1045-01

Sample Matrix: Solid

Microbiology

Analyte Fecal Coliform	Results (MRL) < 2 (N/A)	MDL Meth 9221	 <u>Analyst</u> ARG		<u>Units</u> MPN/g dry
Percent Solids	95 (N/A)	%S	ARG	10/30/20 15:00	%



The Microbiology Division of Thielsch Engineering, Inc.



CERTIFICATE OF ANALYSIS

Client Name: NEFCO Client Project ID: Biosolids

ESS Laboratory Work Order: 20J1045

Notes and Definitions

<	Less	than	the	Method	Detection	Limit.

ND Analyte NOT DETECTED at or above the MRL (LOQ), LOD for DoD Reports, MDL for J-Flagged Analytes

dry Sample results reported on a dry weight basis

RPD Relative Percent Difference Method Detection Limit MDL MRL Method Reporting Limit Limit of Detection LOD Limit of Quantitation LOQ **Detection Limit** DL Initial Volume I/V F/V Final Volume

Subcontracted analysis; see attached report

1 Range result excludes concentrations of surrogates and/or internal standards eluting in that range.

2 Range result excludes concentrations of target analytes eluting in that range. 3 Range result excludes the concentration of the C9-C10 aromatic range.

Avg Results reported as a mathematical average.

NR No Recovery

[CALC] Calculated Analyte

SUB Subcontracted analysis; see attached report

RLReporting Limit

EDL Estimated Detection Limit MF Membrane Filtration **MPN** Most Probably Number **TNTC** Too numerous to Count **CFU** Colony Forming Units

185 Frances Avenue, Cranston, RI 02910-2211

Tel: 401-461-7181

Quality

Dependability

Fax: 401-461-4486



The Microbiology Division of Thielsch Engineering, Inc.

ESS Laboratory Work Order: 20J1045



CERTIFICATE OF ANALYSIS

Client Name: NEFCO Client Project ID: Biosolids

ESS LABORATORY CERTIFICATIONS AND ACCREDITATIONS

ENVIRONMENTAL

Rhode Island Potable and Non Potable Water: LAI00179 http://www.health.ri.gov/find/labs/analytical/ESS.pdf

Connecticut Potable and Non Potable Water, Solid and Hazardous Waste: PH-0750 http://www.ct.gov/dph/lib/dph/environmental health/environmental laboratories/pdf/OutofStateCommercialLaboratories.pdf

Maine Potable and Non Potable Water, and Solid and Hazardous Waste: RI00002 http://www.maine.gov/dhhs/mecdc/environmental-health/dwp/partners/labCert.shtml

Massachusetts Potable and Non Potable Water: M-RI002 http://public.dep.state.ma.us/Labcert/Labcert.aspx

New Hampshire (NELAP accredited) Potable and Non Potable Water, Solid and Hazardous Waste: 2424 http://des.nh.gov/organization/divisions/water/dwgb/nhelap/index.htm

New York (NELAP accredited) Non Potable Water, Solid and Hazardous Waste: 11313 http://www.wadsworth.org/labcert/elap/comm.html

New Jersey (NELAP accredited) Non Potable Water, Solid and Hazardous Waste: RI006 http://datamine2.state.nj.us/DEP_OPRA/OpraMain/pi_main?mode=pi_by_site&sort_order=PI_NAMEA&Select+a+Site:=58715

United States Department of Agriculture Soil Permit: P330-12-00139

Pennsylvania: 68-01752

http://www.dep.pa.gov/Business/OtherPrograms/Labs/Pages/Laboratory-Accreditation-Program.aspx

185 Frances Avenue, Cranston, RI 02910-2211

Tel: 401-461-7181

Fax: 401-461-4486

AIN OF CUSTOI **Maboratory** ston of Thielsch Engineering, Inc. Turn Time X Standard Reporting Limits ESS LAB PROTECT ID If faster than 5 days, prior approval by laboratory is required # 2071045 State where samples were collected from: iel. (401) 461-7181 Fax (401) 461-448 MA RI CT NH NJ NY ME Electronic Deliverable www.esslaboratory.com Is this project for any of the following:
MA-MCP* Navy USA X Yes ___ No Format pdf USACE Other Co. Name Project # Project Name (20 Char. or less) Circle and/or Write Required Analysis NEFCO Biosolids Fecal Coli No Targets NBC7 Address Contact Person PAH Jordan Dimitrov 97 East Howard St. MCPw/Hg PP13 Number of Containers Zip 02169 City State PO# EPH 8015 GRO Quincy MΑ Type of Containers RCRA8 625 Telephone# 21 Fax # Email Address MCP 617 376 2500 x-107 jdimitrov@nefcobiosolids.com 92 8270 RCRAS ESS LAB Date Collection 8100 TPH GRAB Sample# Time Sample Identification (20 Char, or less) 10-29-2020 11:55 EQ Class A Biosolids 1 G \mathbf{x} 1 Container Type: P-Poly G-Glass S-Sterile V-VOA Matrix: S-Soil SD-Solid D-Sludge WW-Waste Water GW-Ground Water SW-Surface Water DW-Drinking Water O-Oil W-Wipes F-Filters ____ Yes ____ No Cooler Present Internal Use Only Comments: This is a sample of EQ Biosolids, collected by Jordan Dimitrov from Seals Intact ___Yes ____ No NA:_____ [] Pickup Cooler Temp: [] Technicians Train 3 at NEFCO Plant, Quincy, MA. Relinquished by: (Signature) Date/Time Received by: (Signature) Date/Time Relinquished by: (Signature) Date/Time Received by: (Signature) Date/Time Religioushed by: (Signature) Date/Time Date/Time Relinquished by: (Signature) Date/Time Received by: (Signature) Date/Time

*MADEP requires that all additional calibrated analytes found during analysis be disclosed.

运炉 编译基本本

Please fax all changes to Chain of Custody in writing.

(White) Lab Copy 2 (Yellow) Client Receipt

ESS Laboratory Division of Thielsch Engineering, Inc.

CHA	IN	OF	CI	IST	ODY
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Other

Reporting Limits

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NEFCO								Bi	osol	ids Fe	cal Coli		ļ	-		sts							T				
Contact Per Jorda	son nn Dimitrov					Address 97 E	ast H	owar	d s	t.		1 ,		524.2	VPH	No Targets	808 es PCB	PAH only	3 TAL2	g NBC							
City Q ui r	гсу	Sta	te MA				Zip 02169		PO#	3		ntainer	ners	624	8015 GRO	ЪН	ايق	625 I	RCRA8 PP13 TAL23	/CPw/H	田						
Telephone # 617 3	76 2500 x-1		Fax #					1	l Addre		losolids.com	r of Co	Contaí			015 DRO	8082 PCB		RCRA	TCLP8 MCP MCPw/Hg NBC7	9221E						
ESS LAB Sample#	Date	Collectio Time	r COMP	GRAB	MATRIX		Sample	Identil	fication	(20 Char. or	less)	Number of Containers	Type of Containers	8260	~15	8100 TPH	8081 Pesticides	8270	RCRAS	TCLP8	SM 9						
1	10-29-2020	11:5	5	x	SD	EQ	Class	ΑB	ios	olids		1	G								x						
					_																	\square	\dashv			_	
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	ype: P-Poly G-Gla		e V-VC	OA []				D-S	Sludge	WW-Wast	e Water GW-Gr	ound V	Vater	SW-S	urface	Wate	er D	W-D	rinkin	ıg Wa	ter	O-Oil	W-	Wipes	1:-	Filter	S
Cooler Pres Seals Intact Cooler Tem	ent Yes		ı:		_ [nal Use (] Pickup] Technic	,		Thi		a sample o at NEFCO P						olle	ect	ed 1	by i	Jor	dan	Din	nitr	ov	fro	mc
-	nd by: (Signature)	Date/1 29 01 t 2020	ime	R	eceive	d by Sig	nati)re)	106	Date/		Relinquished by		ature)	I	Date/.	l'ime	29	Rec	eived	by: (S	Signat	ture)	in.	Da 1029	e/Ti 20	me 17:	<u>-</u> 29
Relinquisho	ed by: (Signature)	Date/I	Time	R	ēceive	d by: (Sig	nature)		Date/	Time	Relinquished by	r: (Sign	ature)		Date/				eived						te/Ti		

🗶 Standard

Turn Time

Page 9 of 9



Results Report Order ID: 0121882

NEFCO 97 East Howard Street Quincy, MA 02169

Project: NEFCO Monthly 97 East Howard Street Quincy, MA 02169

Attn: Jordan Dimitrov

Regulatory ID:

Sample Number: 0121882-01 Collector: JGD			ass A EQ Biosolida Date: 12/03/2020		Samp Samp		site			
Department / Test / Parameter	Result		Units	Method	R.L.	DF	Prep Date	Ву	Analysis Date	Ву
<u>Inorganics</u>										
Chloride	0.181		% dry	EPA 300.0	0.00523	1	12/16/20	EJJ	12/18/20 0:14	EJJ
Corrosivity (pH)										
Corrosivity, pH (pH Units)	6.62		N/A	SW 846 9045D		1	12/10/20	YTM	12/10/20 8:38	YTM
Corrosivity, Temperature (C)	20.6		N/A	SW 846 9045D		1	12/10/20	YTM	12/10/20 8:38	YTM
Nitrate as N	< 10.5		mg/kg dry	EPA 300.0	10.5	1	12/16/20	EJJ	12/18/20 0:14	EJJ
Total Kjeldahl Nitrogen (TKN)	4.48		% dry	EPA 351.2	0.328	50	12/08/20	ZJH	12/09/20 14:36	DWL
Total Organic Nitrogen (TON) As	3.95		%	Calculation		1	01/05/21	DWL	01/05/21 16:13	DWL
Received Total Solids	95.3		%	SM 2540-G		1	12/08/20	СН	12/08/20 14:10	СН
Volatile Solids	56.4		%	SM 2540-G		1	12/08/20	СН	12/09/20 9:55	СН
Metals										
Sulfur	2.5		%	SW846 6010C	0.0017	5	01/06/21		01/07/21 10:15	SUB*
Aluminum	6160	МЗ	mg/kg dry	SW 846 6010D	25.6	2	12/14/20	RJS	12/15/20 11:48	RJS
Arsenic	5.75		mg/kg dry	SW 846 6010D	1.28	2	12/14/20	RJS	12/15/20 11:48	RJS
Cadmium	1.88		mg/kg dry	SW 846 6010D	0.256	2	12/14/20	RJS	12/15/20 11:48	RJS
Calcium	13900		mg/kg dry	SW 846 6010D	256	2	12/14/20	RJS	12/15/20 11:48	RJS
Chromium	42.7		mg/kg dry	SW 846 6010D	5.12	2	12/14/20	RJS	12/15/20 11:48	RJS
Cobalt	2.57	J	mg/kg dry	SW 846 6010D	2.56	2	12/14/20	RJS	12/15/20 11:48	RJS
Copper	505	B1	mg/kg dry	SW 846 6010D	0.256	2	12/14/20	RJS	12/15/20 11:48	RJS
Iron	39800	МЗ	mg/kg dry	SW 846 6010D	25.6	2	12/14/20	RJS	12/15/20 11:48	RJS
Lead	102		mg/kg dry	SW 846 6010D	1.28	2	12/14/20	RJS	12/15/20 11:48	RJS
Magnesium	4720		mg/kg dry	SW 846 6010D	256	2	12/14/20	RJS	12/15/20 11:48	RJS
Manganese	305		mg/kg dry	SW 846 6010D	1.28	2	12/14/20	RJS	12/15/20 11:48	RJS
Mercury	1.06		mg/kg dry	SW 846 7471B	0.0219	1	12/10/20	MKR	12/10/20 10:07	MKR
Molybdenum	33.5		mg/kg dry	SW 846 6010D	5.12	2	12/14/20	RJS	12/15/20 11:48	RJS
Nickel	21.5		mg/kg dry	SW 846 6010D	5.12	2	12/14/20	RJS	12/15/20 11:48	RJS
Potassium	0.132		% dry	SW 846 6010D	0.0256	2	12/14/20	RJS	12/15/20 11:48	RJS
Selenium	2.75	J	mg/kg dry	SW 846 6010D	1.28	2	12/14/20	RJS	12/15/20 11:48	RJS
Sodium	1600		mg/kg dry	SW 846 6010D	256	2	12/14/20	RJS	12/15/20 11:48	RJS
Zinc	1160		mg/kg dry	SW 846 6010D	51.2	2	12/14/20	RJS	12/15/20 11:48	RJS

Pesticide/PCB

Report Generated On: 01/08/2021 3:01 pm 0121882

> STL_Results Revision #1.9 Effective: 04/16/2020







Sample Number: 0121882-01 Collector: JGD	Site: Colle	: Class A EQ Biosoli ect Date: 12/03/202		Sampl Sampl		e: Compos	site		
Department / Test / Parameter	Result	Units	Method	R.L.	DF	Prep Date	Ву	Analysis Date	Ву
Pesticide/PCB (Continued)									
PCBs, 8082									
Aroclor 1016 [2C]	< 526	μg/Kg dry	SW846 3550C/8082A	526	10	12/11/20	SCD	12/16/20 3:00	CEK
Aroclor 1221 [2C]	< 526	μg/Kg dry	SW846 3550C/8082A	526	10	12/11/20	SCD	12/16/20 3:00	CEK
Aroclor 1232 [2C]	< 526	μg/Kg dry	SW846 3550C/8082A	526	10	12/11/20	SCD	12/16/20 3:00	CEK
Aroclor 1242 [2C]	< 526	μg/Kg dry	SW846 3550C/8082A	526	10	12/11/20	SCD	12/16/20 3:00	CEK
Aroclor 1248 [2C]	< 526	μg/Kg dry	SW846 3550C/8082A	526	10	12/11/20	SCD	12/16/20 3:00	CEK
Aroclor 1254 [2C]	< 526	μg/Kg dry	SW846 3550C/8082A	526	10	12/11/20	SCD	12/16/20 3:00	CEK
Aroclor 1260 [2C]	< 526	μg/Kg dry	SW846 3550C/8082A	526	10	12/11/20	SCD	12/16/20 3:00	CEK
Aroclor 1262 [2C]	< 526	μg/Kg dry	SW846 3550C/8082A	526	10	12/11/20	SCD	12/16/20 3:00	CEK
Aroclor 1268 [2C]	< 526	μg/Kg dry	SW846 3550C/8082A	526	10	12/11/20	SCD	12/16/20 3:00	CEK
PCBS, Total [2C]	< 526	μg/Kg dry	SW846 3550C/8082A	526	10	12/11/20	SCD	12/16/20 3:00	CEK
Surrogate Recoveries	Results	Units	Method	%Recovery	DF	Limits (%Recov	rery) Analysis	Date
Surrogate: Tetrachloro-m-xylene [2C]	29.4	μg/Kg dry	SW846 3550C/8082A	56%	10	3	5-135	12/16/20	3:00
Surrogate: Decachlorobiphenyl [2C]	31.6 C6	μg/Kg dry	SW846 3550C/8082A	60%	10	1	0-153	12/16/20	3:00
Wet Chemistry									
Ammonia-nitrogen, Total	0.53	%	S4500NH3D-11	0.002	10	12/10/20		12/28/20 19:27	SUB*
Phosphorus, Total	2.6	%	EPA 365.1	0.057	100	12/11/20		12/15/20 13:46	SUB*

Data Qualifiers:

В1 The target analyte was detected in the Method, Dilution Water, Instrument or Extraction Blank at or above the method Reporting Limit,

however it was <10% the concentration detected in the sample. Data may be fully usable under the 2009 TNI Standard.

C6 The surrogate recovery of the CCV was below acceptance criteria.

J The analyte was detected above the method detection limit but below the method reporting limit; the reported result is an estimated value.

М3 The Matrix Spike associated with this sample is above established acceptance criteria, indicating potential matrix interference. Results of this

sample may be biased high.

Sample Receipt Conditions:

All samples met the sample receipt requirements for the relevant analyses.

Work Order Memo

SUB: S4500NH3D-11, EPA 365.1 performed by LAB ID# 22-293 & PA010

SUB: SW846 6010C performed by LAB ID# 22-293

Report Generated On: 01/08/2021 3:01 pm 0121882

> STL Results Revision #1.9 Effective: 04/16/2020







The test *pH, Lab* is performed in the Laboratory as soon as possible. These results are not appropriate for compliance with NPDES, SDWA, or other regulatory programs that require analysis within 15 minutes of sample collection and should be considered for informational purposes only.

*pH, Final for ASTM leachate is performed by method SM 4500-H-B.

All results meet the requirements of STL's TNI (NELAC) Accredited Quality System unless otherwise noted. If your results contain any data qualifiers or comments, you should evaluate useability relative to your needs.

OR. Wag

If collectors initials include "STL", samples have been collected in accordance with STL SOP SL0015.

All results reported on an As Received (Wet Weight) basis unless otherwise noted.

This laboratory report may not be reproduced, except in full, without the written approval of STL.

Results are considered Preliminary unless report is signed by authorized representative of STL.

Reviewed and Released By:

Charles Wanyo Project Manager I

Report Generated On: 01/08/2021 3:01 pm

STL Results Revision #1.9

0121882

Effective: 04/16/2020





Address: 97 East Howard St.

Client Name: New England Fertilizer Company (NEFC

610-375-



Phone: 617-376-2500, x.107

0121882 Charles Wanyo

onal charges may apply for ru	sh TAT. If not specified, standard TAT will apply) Order ID:
thly Composite	
s client	

Quincy, MA 02169	_{Fax:} 617-984-0953	
Contact Name: Jordan Dimitrov	Email: jdimitrov@nefcobiosolids.com	Payment / P.O. Info: PO: 03071
Comments: (1) 1402, Q		

	7,7,000			T		T	S	ee Cod	es Belo	W	
SWTL Sample Number	Sample Description / Site ID:	Date Sampled	Time Sampled	Samplers Initials	Test(s) Requested:	Bottle Quantity	Matrix	Sample Type	Bottle Type	Preservative	Comments / Field Data:
	Class A EQ Biosolids	10-30-20	01:00	JGD	See attached	1	Solid	Comp	G	0	Need NJ & PA DEP certified
		12-03-20	16:00								
	·										

Relinquished By:	Date:		Sample Condit	igas	ν.	Matri	x Key	Bottle Type Key	Reporting Options
1 1 1 1	12-03-60		Submitted with COC? /	/ _Y) _N	NPW = Non-Potable Wat	er	P = Plastic	SDWA Reporting
Justin Vin (NO)	Time: 16:20			J		Solid = Raw Sludge, Dev (reported as mg/k		G = Glass O = Other	PWSID:
Received By:	Date:	Temp °C:	Number of containers	\mathcal{I}		1		Preservative Key	Fax
	Time:	remp to	match number on COC	1~	/ N	PW = Potable Water (not		Preservative Key	LJ ^{rax}
	Time.	Acceptable: Y / N		\sim	1	SDWA = Safe Drinking V	Vater Act Potable Sample	N = Sodium	X Email
Relinquished By:	Date:	T 00	All containers in tact?	(Y)	/ N	Sample Type Key	SDWA Sample Types	Thiosulfate A = Ascorbic Acid	Other
	Time:	Temp °C:		\times		G = Grab	D≃Distribution	H = HNO ₃	
	inne.	Acceptable: Y / N	Tests within holding times	/ <i>\</i>)	/ N	8HC = 8 Hr.	E=Entry Point R=Raw	C = HCl S = H ₂ SO ₄	Return a copy of this form with Report
Received in Lab By	Date: 12/4/20	Temp °C: 3. /		$\bigcup J$,	Composite	C=Check S=Special	OH = NaOH O = Other	
	Time: 1020	Acceptable Y/N	40 mL VOA vials free o headspace?			24HC = 24 Hr. Composite	M=Maximum Residence	NA = None Required	

Signing this form indicates your agreement with SWPL's Standard Terms and Conditions unless otherwise specified in writing. SLF059 Flev. 1.4 Effective November 12, 2014 Shaded areas are for SWTL use only.



0121882 Charles Wanyo

This is a monthly composite sample of Class A EQ Biosolids, fertilizer grade, collected at NEFCO Plant, Quincy, MA.

Below are the parameters we need tested for:

Parameter	Abbr	Units
Fotal Solids	TS	%
Volatile Solids	VS	%
pH Units	рН	
Total Kj. Nitrogen	TKN	%
Ammon. Nitrogen	NH ₃ -N	%
Nitrate Nitrogen	NO ₃ -N	mg/Kg
Organic Nitrogen	Org-N	%
Total Phosphorus	P	%
Potassium	K	%
Chloride	Cl	%
Total Sulfur	S	%
Calcium	Ca	mg/Kg
Iron	Fe	mg/Kg
Aluminum	Al	mg/Kg
Arsenic	As	mg/Kg
Çadmium	Cd	mg/Kg
Chromium	Cr	mg/Kg
Cobalt	Co	mg/Kg
Copper	Cu	mg/Kg
Lead	Pb	mg/Kg
Magnesium	Mg	mg/Kg
Manganese	Mn	mg/Kg
Mercury	Hg	mg/Kg
Molybdenum	Мо	mg/Kg
Nickel	Ni	mg/Kg
Selenium	Se	mg/Kg
Sodium	Na	mg/Kg
Zinc	Zn	mg/Kg
PCBs	РСВ	ug/Kg

- Please use Solid Materials Matrix for the testing. I checked the "Solid" matrix for the sample.
- Please, test Total Solids via SM 2540-G, making sure you are certified Lab by NJ DEP and PA DEP for this method.
- Please test Total Phosphorus for solid matrix.
- Please, report the data on a dry weight basis
- Please, make sure the detection limit for Selenium is 0.5 mg/Kg or less

Jordan Dimitrov, NEFCO Environmental Compliance and Lab Mgr



The Microbiology Division of Thielsch Engineering, Inc.



CERTIFICATE OF ANALYSIS

Jordan Dimitrov NEFCO 97 East Howard Street Quincy, MA 01148

RE: Biosolids Fecal Coli (N/A)

ESS Laboratory Work Order Number: 20K0789

This signed Certificate of Analysis is our approved release of your analytical results. These results are only representative of sample aliquots received at the laboratory. ESS Laboratory expects its clients to follow all regulatory sampling guidelines. Beginning with this page, the entire report has been paginated. This report should not be copied except in full without the approval of the laboratory. Samples will be disposed of thirty days after the final report has been delivered. If you have any questions or concerns, please feel free to call our Customer Service Department.

Laurel Stoddard
Laboratory Director

REVIEWED

By ESS Laboratory at 12:48 pm, Dec 14, 2020

Analytical Summary

The project as described above has been analyzed in accordance with the ESS Quality Assurance Plan. This plan utilizes the following methodologies: US EPA SW-846, US EPA Methods for Chemical Analysis of Water and Wastes per 40 CFR Part 136, APHA Standard Methods for the Examination of Water and Wastewater, American Society for Testing and Materials (ASTM), and other recognized methodologies. The analyses with these noted observations are in conformance to the Quality Assurance Plan. In chromatographic analysis, manual integration is frequently used instead of automated integration because it produces more accurate results.

The test results present in this report are in compliance with TNI and relative state standards, and/or client Quality Assurance Project Plans (QAPP). The laboratory has reviewed the following: Sample Preservations, Hold Times, Initial Calibrations, Continuing Calibrations, Method Blanks, Blank Spikes, Blank Spike Duplicates, Duplicates, Matrix Spikes, Matrix Spike Duplicates, Surrogates and Internal Standards. Any results which were found to be outside of the recommended ranges stated in our SOPs will be noted in the Project Narrative.

Subcontracted Analyses

BAL Laboratory - Cranston, RI

Fecal Coliform



The Microbiology Division of Thielsch Engineering, Inc.



CERTIFICATE OF ANALYSIS

Client Name: NEFCO

Client Project ID: Biosolids Fecal Coli ESS Laboratory Work Order: 20K0789

SAMPLE RECEIPT

The following samples were received on November 24, 2020 for the analyses specified on the enclosed Chain of Custody Record.

Lab Number 20K0789-01

Sample Name EQ Class A Biosolids

Matrix Solid **Analysis** %S, 2540G, 9221E

185 Frances Avenue, Cranston, RI 02910-2211

Tel: 401-461-7181

Fax: 401-461-4486 ◆ Service



The Microbiology Division of Thielsch Engineering, Inc.



CERTIFICATE OF ANALYSIS

Client Name: NEFCO

Client Project ID: Biosolids Fecal Coli ESS Laboratory Work Order: 20K0789

PROJECT NARRATIVE

No unusual observations noted.

End of Project Narrative.

DATA USABILITY LINKS

To ensure you are viewing the most current version of the documents below, please clear your internet cookies for www.ESSLaboratory.com. Consult your IT Support personnel for information on how to clear your internet cookies.

Definitions of Quality Control Parameters

Semivolatile Organics Internal Standard Information

Semivolatile Organics Surrogate Information

Volatile Organics Internal Standard Information

Volatile Organics Surrogate Information

EPH and VPH Alkane Lists

185 Frances Avenue, Cranston, RI 02910-2211

Tel: 401-461-7181

Fax: 401-461-4486



The Microbiology Division of Thielsch Engineering, Inc.



CERTIFICATE OF ANALYSIS

Client Name: NEFCO

Client Project ID: Biosolids Fecal Coli ESS Laboratory Work Order: 20K0789

CURRENT SW-846 METHODOLOGY VERSIONS

Analytical Methods

1010A - Flashpoint

6010C - ICP

6020A - ICP MS

7010 - Graphite Furnace

7196A - Hexavalent Chromium

7470A - Aqueous Mercury

7471B - Solid Mercury

8011 - EDB/DBCP/TCP

8015C - GRO/DRO

8081B - Pesticides

8082A - PCB

8100M - TPH

8151A - Herbicides

8260B - VOA

8270D - SVOA

8270D SIM - SVOA Low Level

9014 - Cyanide

9038 - Sulfate

9040C - Aqueous pH

9045D - Solid pH (Corrosivity)

9050A - Specific Conductance

9056A - Anions (IC)

9060A - TOC

9095B - Paint Filter

MADEP 04-1.1 - EPH

MADEP 18-2.1 - VPH

Prep Methods

3005A - Aqueous ICP Digestion

3020A - Aqueous Graphite Furnace / ICP MS Digestion

3050B - Solid ICP / Graphite Furnace / ICP MS Digestion

3060A - Solid Hexavalent Chromium Digestion

3510C - Separatory Funnel Extraction

3520C - Liquid / Liquid Extraction

3540C - Manual Soxhlet Extraction

3541 - Automated Soxhlet Extraction

3546 - Microwave Extraction

3580A - Waste Dilution

5030B - Aqueous Purge and Trap

5030C - Aqueous Purge and Trap

5035A - Solid Purge and Trap

SW846 Reactivity Methods 7.3.3.2 (Reactive Cyanide) and 7.3.4.1 (Reactive Sulfide) have been withdrawn by EPA. These methods are reported per client request and are not NELAP accredited.



The Microbiology Division of Thielsch Engineering, Inc.



CERTIFICATE OF ANALYSIS

Client Name: NEFCO

Client Project ID: Biosolids Fecal Coli Client Sample ID: EQ Class A Biosolids

Date Sampled: 11/24/20 11:55

Percent Solids: 95

ESS Laboratory Work Order: 20K0789 ESS Laboratory Sample ID: 20K0789-01

Sample Matrix: Solid

Classical Chemistry

185 Frances Avenue, Cranston, RI 02910-2211

Tel: 401-461-7181

Fax: 401-461-4486



The Microbiology Division of Thielsch Engineering, Inc.



CERTIFICATE OF ANALYSIS

Client Name: NEFCO

Client Project ID: Biosolids Fecal Coli Client Sample ID: EQ Class A Biosolids

Date Sampled: 11/24/20 11:55

Percent Solids: 95

ESS Laboratory Work Order: 20K0789 ESS Laboratory Sample ID: 20K0789-01

Sample Matrix: Solid

Microbiology

Analyte Fecal Coliform	Results (MRL) <2 (N/A)	MDL Method 9221E	<u>Limit</u>	<u>Analyst</u> ARG		<u>Units</u> MPN/g dry
Percent Solids	95 (N/A)	%S		ESS	11/30/20 11:35	%



The Microbiology Division of Thielsch Engineering, Inc.



CERTIFICATE OF ANALYSIS

Client Name: NEFCO

Client Project ID: Biosolids Fecal Coli ESS Laboratory Work Order: 20K0789

Notes and Definitions

<	Less than the Method Detection Limit.

ND Analyte NOT DETECTED at or above the MRL (LOQ), LOD for DoD Reports, MDL for J-Flagged Analytes

dry Sample results reported on a dry weight basis

RPD Relative Percent Difference Method Detection Limit MDL MRL Method Reporting Limit Limit of Detection LOD Limit of Quantitation LOQ **Detection Limit** DL Initial Volume I/V F/V Final Volume

Subcontracted analysis; see attached report

1 Range result excludes concentrations of surrogates and/or internal standards eluting in that range.

2 Range result excludes concentrations of target analytes eluting in that range. 3 Range result excludes the concentration of the C9-C10 aromatic range.

Avg Results reported as a mathematical average.

NR No Recovery

[CALC] Calculated Analyte

SUB Subcontracted analysis; see attached report

RLReporting Limit

EDL Estimated Detection Limit MF Membrane Filtration **MPN** Most Probably Number **TNTC** Too numerous to Count **CFU** Colony Forming Units

185 Frances Avenue, Cranston, RI 02910-2211

Tel: 401-461-7181

Quality

Dependability

Fax: 401-461-4486



The Microbiology Division of Thielsch Engineering, Inc.



CERTIFICATE OF ANALYSIS

Client Name: NEFCO

Client Project ID: Biosolids Fecal Coli ESS Laboratory Work Order: 20K0789

ESS LABORATORY CERTIFICATIONS AND ACCREDITATIONS

ENVIRONMENTAL

Rhode Island Potable and Non Potable Water: LAI00179 http://www.health.ri.gov/find/labs/analytical/ESS.pdf

Connecticut Potable and Non Potable Water, Solid and Hazardous Waste: PH-0750 http://www.ct.gov/dph/lib/dph/environmental_health/environmental_laboratories/pdf/OutofStateCommercialLaboratories.pdf

Maine Potable and Non Potable Water, and Solid and Hazardous Waste: RI00002 http://www.maine.gov/dhhs/mecdc/environmental-health/dwp/partners/labCert.shtml

Massachusetts Potable and Non Potable Water: M-RI002 http://public.dep.state.ma.us/Labcert/Labcert.aspx

New Hampshire (NELAP accredited) Potable and Non Potable Water, Solid and Hazardous Waste: 2424 http://des.nh.gov/organization/divisions/water/dwgb/nhelap/index.htm

New York (NELAP accredited) Non Potable Water, Solid and Hazardous Waste: 11313 http://www.wadsworth.org/labcert/elap/comm.html

New Jersey (NELAP accredited) Non Potable Water, Solid and Hazardous Waste: RI006 http://datamine2.state.nj.us/DEP_OPRA/OpraMain/pi_main?mode=pi_by_site&sort_order=PI_NAMEA&Select+a+Site:=58715

United States Department of Agriculture Soil Permit: P330-12-00139

Pennsylvania: 68-01752

http://www.dep.pa.gov/Business/OtherPrograms/Labs/Pages/Laboratory-Accreditation-Program.aspx

185 Frances Avenue, Cranston, RI 02910-2211

Tel: 401-461-7181

Fax: 401-461-4486

DO11273

	 Page	9	of	
ES			ESS LAB PROJECT I	

ESS Laboratory

Division of Thielsch Engineering, Inc.

185 Frances Avenue, Cranston, RI 02910-2211 Τe

85 Frances	Thielsch En S Avenue, C 61-7181 B	ransto	n, R	I 02	910)-22	11 If fa	te where	an 5 day e sample	s were collecte	al by laboratory is n	equirec	#		_	Repo	rting.	Limit	s	`				3 PRO 07		
ww.esslabo	w.esstadoratory.com									NH NJ my of the follo Navy	NY ME C	other_			-	Electronic Deliverable X Yes No Forma										
o. Name							Project #	1 11101		T Name (20 Ch		T	T	Ī			Ciro	10.00	d/a= 1	137-244			A }			
NEFCO		· · ·							Bio	solids F	ecal Coli	1		—	T 1		CHC	ie an		MILE	_Keqt	pired.	ADSIS	/SIS	$\overline{}$	
ontact Person Jordan	Dimitrov	7					Address 97 East	t Ho	war	d St.	·····			524.2	VPH	EPH No Targets	s 908	AH	TAL23	NBC7						
iy Quincy	r	S	tare I	ΜA			Zip 02	169		PO#		tainers	iers		8015 GRO	N Hd	608 Pesticides 60	יים	PP13	MCPw/Hg	F-3					
lephone # 617 376	2500 x-	107	Fax	#						Address rov@nefcob	piosolids.com	of Cor	Contair	624	EX D	000 8005 E	8087 2082	625	RCRA8	MCP M	221E					
SS LAB Sample#	Date	Collect Time		сомь	GIMB	MATRIX	s	ample I		ation (20 Char. o		Number of Containers	Type of Containers	8260	8021 MTBE/BTEX GR	8,000	Pesticides	8270	RCRA5	TCLP8 1	SM 9					
1 11	-24-2020	11:5	55		x	SD	EQ Cla	ıss ,	A Bi	osolids	5	1	G								x	寸		\top	十	
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					\neg				 					-	_	\dashv		\dashv	\dashv	\dashv	\dashv	_	+	\dotplus	╬	
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ontainer Type: oler Present	P-Poly G-Glas Yes		ile V-	VOA			S-Soil SD	-Solid		-	te Water GW-Gro	end Wa	iter S	W-St	rface	Water	r D'	W-Dr	inkin	g Wate	er C)-Oil	WV	Vipes	F-Fi	lters
ls Intact oler Temp:	Yes	No N	A:			[Pickup Technicians				a sample of at NEFCO Pla						lle	cte	ed h	y J	ford	an !	Dim:	itro	v f	rom
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ESS Laboratory HAIN OF CUSTODY Page Division of Thielsch Engineering, Inc. Turn Time 🗴 Standard ESS LAB PROJECT ID Reporting Limits 185 Frances Avenue, Cranston, RI 02910-2211 If faster than 5 days, prior approval by laboratory is required # 20k0789 State where samples were collected from: Tel. (401) 461-7181 Fax (401) 461-4486 MA RI CT NH NJ NY ME Other Electronic Deliverable www.esslaboratory.com Is this project for any of the following: MA-MCP* Navy USA Format pdf X Yes ___ No Other Co. Name Project # Project Name (20 Char. or less) Circle and/or Write Required Analysis NEFCO Biosolids Fecal Coli No Targets TAL23 855 Contact Person Address VPH 524.2 Jordan Dimitrov 97 East Howard St. PP13 MCP MCPw/Hg Number of Containers State Zip 02169 PO# Quincy Type of Containers MA 624 221E 625 RCRA8 8082 PCB Telephone # Fax# Email Address 8015 DRO 617 376 2500 x-107 jdimitrov@nefcobiosolids.com RCRA5 g ESS LAB TCLP8 Date Collection MATRIX 8100 TPH COMP GRAB Sample# SZ Time Sample Identification (20 Char. or less) 11-24-202d 11:55 EQ Class A Biosolids 1 G х Container Type: P-Poly G-Glass S-Sterile V-VOA Matrix: S-Soil SD-Solid D-Sludge WW-Waste Water GW-Ground Water SW-Surface Water DW-Drinking Water O-Oil W-Wipes F-Filters Cooler Present Yes ___ No Internal Use Only Comments: This is a sample of EQ Biosolids, collected by Jordan Dimitrov from Yes ___ No NA: ___ Seals Intact [] Pickup Cooler Temp: [] Technicians Train 2 at NEFCO Plant, Quincy, MA. Relinquished by: (Signature) Relinquished by: (Signature) Date/Time Received by: (Signature) Date Time Date/Time Received by: (Signature) Date/Time Sumber Acres 1464/20 16:36 12 V6:36 Relinquished by: (Signature) Date/Time Received by: (Signature) Relinquished by: (Signature) Date/Time Date/Time Received by: (Signature) Date/Time

^{*}MADEP requires that all additional calibrated analytes found during analysis be disclosed.



1/6/2021

NEFCO Jordan Dimitrov 97 East Howard St Quincy, MA, 02169

Ref: Analytical Testing

Report Number: 20-357-0006

Project Description: Class A EQ Biosolids

Dear Jordan Dimitrov:

Waypoint Analytical Virginia, Inc. received sample(s) on 12/22/2020 for the analyses presented in the following report.

The above referenced project has been analyzed per your instructions. The analyses were performed in accordance with the applicable analytical method. Sub-contracted testing is noted on the Sample Summary Table if applicable.

The analytical data has been validated using standard quality control measures performed as required by the analytical method. Quality Assurance, method validations, instrumentation maintenance and calibration for all parameters (NELAP and non-NELAP) were performed in accordance with guidelines established by the USEPA (including 40 CFR 136 Method Update Rule May 2012) and NELAC unless otherwise indicated.

Certain parameters (chlorine, pH, dissolved oxygen, sulfite...) are required to be analyzed within 15 minutes of sampling. Usually, but not always, any field parameter analyzed at the laboratory is outside of this holding time. Refer to sample analysis time for confirmation of holding time compliance.

The results are shown on the attached Report of Analysis(s). Results for solid matrices are reported on an asreceived basis unless otherwise indicated. This report shall not be reproduced except in full and relates only to the samples included in this report.

Please do not hesitate to contact me or client services if you have any questions or need additional information.

Sincerely,

Pauric

MC

Groary

Pauric McGroary Agronomist

Laboratory's liability in any claim relating to analyses performed shall be limited to, at laboratory's option, repeating the analysis in question at laboratory's expense, or the refund of the charges paid for performance of said analysis.



Sample Summary Table

Report Number: 20-357-0006

Client Project Description: Class A EQ Biosolids

Lab No	Client Sample ID	Matrix	Date Collected	Date Received	Method	Lab ID
74489	Class a EQ Biosolids	Solids	12/21/2020 14:00	12/22/2020		
74489	Class a EQ Biosolids	Solids	12/21/2020 14:00	12/22/2020	AOAC 2.4.14	WP MTN -
74489	Class a EQ Biosolids	Solids	12/21/2020 14:00	12/22/2020	9045D	WP MTN -
74489	Class a EQ Biosolids	Solids	12/21/2020 14:00	12/22/2020	SM-2320 B	WP MTN -
74489	Class a EQ Biosolids	Solids	12/21/2020 14:00	12/22/2020	SM-2540G	WP MTN -
74489	Class a EQ Biosolids	Solids	12/21/2020 14:00	12/22/2020	SM-4500-NH3C	WP MTN -
74489	Class a EQ Biosolids	Solids	12/21/2020 14:00	12/22/2020	SM-4500-NH3C-TKN	WP MTN -
74489	Class a EQ Biosolids	Solids	12/21/2020 14:00	12/22/2020	4500NO3F-2011	WP MTN -
74489	Class a EQ Biosolids	Solids	12/21/2020 14:00	12/22/2020	6010D	WP MTN -
74489	Class a EQ Biosolids	Solids	12/21/2020 14:00	12/22/2020	SW-7471B	WP MTN -
74489	Class a EQ Biosolids	Solids	12/21/2020 14:00	12/22/2020	8081A	WP MTN -
74489	Class a EQ Biosolids	Solids	12/21/2020 14:00	12/22/2020	8082	WP MTN -
74489	Class a EQ Biosolids	Solids	12/21/2020 14:00	12/22/2020	8260B	WP MTN -
74489	Class a EQ Biosolids	Solids	12/21/2020 14:00	12/22/2020	8270D	WP MTN -
74489	Class a EQ Biosolids	Solids	12/21/2020 14:00	12/22/2020	AOAC 2.5.07	WP MTN -
74489	Class a EQ Biosolids	Solids	12/21/2020 14:00	12/22/2020	AOAC 993.31	WP MTN -



09570

NEFCO

Jordan Dimitrov

97 East Howard St Quincy , MA 02169 Project

Class A EQ Biosolids

Information:

Report Date: 01/06/2021 Received: 12/22/2020

Growing

REPORT OF ANALYSIS

Pauric Mc Groary Ph.D., CPAg

Agronomist

Lab No: 74489

Sample ID: Class a EQ Biosolids

Report Number: 20-357-0006

Matrix: Solids

Sampled: 12/21/2020 14:00

Test	Results	Units	MQL	DF	Date / Time Analyzed	Ву	Analytical Method
Moisture	5.57	%	0.010	1	12/28/20 16:28	FMM	SM-2540G
Available Phosphorus as P2O5	8.67	% - dry	0.105	1	12/28/20 11:42	DXT	AOAC 993.31
Available Potassium (as K2O)	0.192	% - dry		1	12/29/20 15:07	DXT	AOAC 2.5.07
Water Insoluble Nitrogen	5.03	% - dry	0.021	1	01/06/21 10:00	JJ	AOAC 2.4.14
Water Soluble Nitrogen	5290	mg/Kg - dry	265	1	01/04/21 10:30		CALCULATION
Test	Results	Units	MQL	DF	Date / Time Analyzed	Ву	Analytical Method
							_
Alkalinity (as CaCO3)	4160	mg/Kg - dry	105	1	12/29/20 10:25	CXB	SM-2320 B
Ammonia Nitrogen	3230	mg/Kg - dry	26.5	1	01/04/21 15:00	JPJ	SM-4500-NH3C
Nitrate+Nitrite-N	6.90	mg/Kg - dry	5.11	1	01/04/21 14:54	ZBD	4500NO3F-2011
Organic N	52400	mg/Kg - dry	265	1	01/04/21 10:30		CALCULATION
pH	6.6	s.u.		1	01/05/21 15:06	CxC	9045D
Total Solids	94.4	%	0.010	1	12/28/20 16:28	FMM	SM-2540G
Total Volatile Solids	64.6	%	0.010	1	12/28/20 16:28	FMM	SM-2540G
Total Kjeldahl Nitrogen	55600	mg/Kg - dry	265	1	01/04/21 10:30	JPJ S	M-4500-NH3C-TKN
Phosphorus	21800	mg/Kg - dry	26.5	5	12/31/20 20:07	TJS	6010D
Aluminum	6590	mg/Kg - dry	5.29	1	12/31/20 20:02	TJS	6010D
Arsenic	6.81	mg/Kg - dry	0.529	1	12/30/20 19:41	JADS	6010D
Calcium	16900	mg/Kg - dry	265	5	12/31/20 20:07	TJS	6010D
Cadmium	2.49	mg/Kg - dry	0.106	1	12/30/20 19:41	JADS	6010D

Qualifiers/

Definitions DF Outside QC Limit

Dilution Factor MQL

Method Quantitation Limit

В Analyte detected in blank

L Limit Exceeded



09570

NEFCO

Project

Class A EQ Biosolids

Jordan Dimitrov 97 East Howard St Quincy , MA 02169 $\begin{tabular}{ll} Report Date: $01/06/2021$ \\ Information: & Received: $12/22/2020$ \\ \end{tabular}$

Pauric

Wc

Growing

Report Number : **20-357-0006**

REPORT OF ANALYSIS

Pauric Mc Groary Ph.D., CPAg

Agronomist

Lab No: **74489**

Qualifiers/

Definitions

DF

Outside QC Limit

Dilution Factor

Sample ID : Class a EQ Biosolids

Matrix: Solids

Sampled: 12/21/2020 14:00

Test	Results	Units	MQL	DF	Date / Time Analyzed	Ву	Analytical Method
Chromium	50.2	mg/Kg - dry	0.264	1	12/30/20 19:41	JADS	6010D
Copper	507	mg/Kg - dry	0.529	1	12/31/20 20:02	TJS	6010D
Iron	44100	mg/Kg - dry	52.9	5	12/31/20 20:07	TJS	6010D
Lead	103	mg/Kg - dry	0.317	1	12/30/20 19:41	JADS	6010D
Magnesium	5150	mg/Kg - dry	5.29	1	12/30/20 19:41	JADS	6010D
Manganese	343	mg/Kg - dry	0.529	1	12/30/20 19:41	JADS	6010D
Mercury	1.46	mg/Kg - dry	0.0164	1	12/30/20 10:55	DDB	SW-7471B
Molybdenum	30.5	mg/Kg - dry	0.264	1	12/30/20 19:41	JADS	6010D
Nickel	23.8	mg/Kg - dry	0.264	1	12/30/20 19:41	JADS	6010D
Potassium	1370	mg/Kg - dry	52.9	5	12/31/20 20:07	TJS	6010D
Selenium	5.22	mg/Kg - dry	0.529	1	12/30/20 19:41	JADS	6010D
Sodium	1400	mg/Kg - dry	26.5	1	12/30/20 19:41	JADS	6010D
Zinc	1080	mg/Kg - dry	1.32	1	12/30/20 19:41	JADS	6010D
Sulfur	17500	mg/Kg - dry	52.9	5	12/31/20 20:07	TJS	6010D
Analytical Method: 8081A		Prep Batch(es):	L528732	12/28/20 09:4	5		
Prep Method: 3546							
Test	Results	Units	MQL	DF	Date / Time Analyzed	Ву	Analytical Batch
Aldrin	<22.6	μg/Kg - dry	22.6	10	12/30/20 10:34	VIC	L529163
Chlordane	<226	μg/Kg - dry	226	10	12/30/20 10:34	VIC	L529163
4,4'-DDD	<22.6	μg/Kg - dry	22.6	10	12/30/20 10:34	VIC	L529163
4,4'-DDE	<22.6	μg/Kg - dry	22.6	10	12/30/20 10:34	VIC	L529163

В

MQL

Analyte detected in blank

Method Quantitation Limit



09570

Quincy , MA 02169

Project **NEFCO** Class A EQ Biosolids

Jordan Dimitrov Report Date: 01/06/2021 Information: Received: 12/22/2020 97 East Howard St

Groary

REPORT OF ANALYSIS Report Number: 20-357-0006

Pauric Mc Groary Ph.D., CPAg

Agronomist

74489 Lab No: Matrix: Solids

Sample ID: Class a EQ Biosolids Sampled: 12/21/2020 14:00

Analytical Method: 8081A Prep Batch(es): **L528732** 12/28/20 09:45

Prep Method: 3546

Fiep Metriou.								
Test	Results	Units	MQL	DF	Date / Time Analyzed	Ву	Analytical Batch	
4,4'-DDT	<22.6	μg/Kg - dry	22.6	10	12/30/20 10:34	VIC	L529163	
Dieldrin	<22.6	μg/Kg - dry	22.6	10	12/30/20 10:34	VIC	L529163	
gamma-BHC	141	μg/Kg - dry	22.6	10	12/30/20 10:34	VIC	L529163	
Heptachlor	<22.6	μg/Kg - dry	22.6	10	12/30/20 10:34	VIC	L529163	
Toxaphene	<2260	μg/Kg - dry	2260	10	12/30/20 10:34	VIC	L529163	
Surrogate: Decachlorobiphenyl	59.6		Limits: 37-165%		10 12/30/20 10:3	34 VIC	L529163	
Surrogate: Tetrachloro-m-xylene		76.1	Limits: 18-158%		10 12/30/20 10:3	34 VIC	L529163	

Prep Batch(es): L529576 01/04/21 11:16 Analytical Method: 8082

Prep Method: 3546

Test	Results	Units	MQL	DF	Date / Time Analyzed	Ву	Analytical Batch
Aroclor 1016	<86.8	μg/Kg - dry	86.8	1	01/04/21 18:11	VIC	L529773
Aroclor 1221	<86.8	μg/Kg - dry	86.8	1	01/04/21 18:11	VIC	L529773
Aroclor 1232	<86.8	μg/Kg - dry	86.8	1	01/04/21 18:11	VIC	L529773
Aroclor 1242	<86.8	μg/Kg - dry	86.8	1	01/04/21 18:11	VIC	L529773
Aroclor 1248	<86.8	μg/Kg - dry	86.8	1	01/04/21 18:11	VIC	L529773
Aroclor 1254	<86.8	μg/Kg - dry	86.8	1	01/04/21 18:11	VIC	L529773
Aroclor 1260	<86.8	μg/Kg - dry	86.8	1	01/04/21 18:11	VIC	L529773
Surrogate: Decachlorobiphenyl		39.3	Limits: 25-125%		1 01/04/21 18:1	l1 VIC	L529773
Surrogate: Tetrachloro-m-xylene		61.0	Limits: 25-125%		1 01/04/21 18:1	l1 VIC	L529773

Qualifiers/ Outside QC Limit В Analyte detected in blank Definitions DF **Dilution Factor** MQL Method Quantitation Limit



09570

NEFCO Project Class A EQ Biosolids

Jordan Dimitrov Report Date: 01/06/2021 Information: Received: 12/22/2020 97 East Howard St

Quincy , MA 02169 Growny Pauric

Pauric Mc Groary Ph.D., CPAg REPORT OF ANALYSIS Report Number: 20-357-0006

Agronomist

74489 Matrix: Solids Lab No:

Sample ID: Class a EQ Biosolids Sampled: 12/21/2020 14:00

Analytical Method: 8260B Prep Batch(es): L529014 12/29/20 07:52

Prep Method: 5030A

Test Results Units MQL DF Date / Time Ву **Analytical** Analyzed **Batch** Trichloroethene <9.29 μg/Kg - dry 9.29 1 12/29/20 12:02 ELM L529021 Surrogate: 4-Bromofluorobenzene 95.0 Limits: 60-130% 1 12/29/20 12:02 ELM L529021 Surrogate: 1,2-Dichloroethane - d4 144 * Limits: 60-132% 1 12/29/20 12:02 ELM L529021 Surrogate: Toluene-d8 100 Limits: 70-130% 1 12/29/20 12:02 ELM L529021

Analytical Method: 8270D Prep Batch(es): **L528991** 12/28/20 08:48

3546 **Prep Method:**

•								
Test	Results	Units	MQL	DF	Date / Time Analyzed	Ву	Analytical Batch	
Benzo(a)pyrene	<4900	μg/Kg - dry	4900	5	12/28/20 23:01	ССВ	L529005	
Hexachlorobenzene	<12500	μg/Kg - dry	12500	5	12/28/20 23:01	ССВ	L529005	
Hexachlorobutadiene	<12500	μg/Kg - dry	12500	5	12/28/20 23:01	CCB	L529005	
N-Nitrosodimethylamine	<12500	μg/Kg - dry	12500	5	12/28/20 23:01	CCB	L529005	
Surrogate: 2-Fluorobiphenyl	59.4		Limits: 20-120%		5 12/28/20 23:0	1 CCB	L529005	
Surrogate: Nitrobenzene-d5	58.7		Limits: 22-120%		5 12/28/20 23:0	1 CCB	L529005	
Surrogate: 4-Terphenyl-d14	104		Limits: 22-120%		5 12/28/20 23:0	1 CCB	L529005	

Qualifiers/ **Definitions**

Outside QC Limit DF **Dilution Factor**

В Analyte detected in blank MQL Method Quantitation Limit



Client: NEFCO CASE NARRATIVE

Project: Class A EQ Biosolids Lab Report Number: 20-357-0006

Date: 1/6/2021

High Temp/Pressure Extraction for OC Pests Method 3546

Sample 74489 (Class a EQ Biosolids) QC Batch No: L528732/L528732

The weight/volume extracted was reduced during the extraction procedure due to the nature of the sample.

Reporting limits are factored for the sample size reduction.

High Temp/Pressure Extraction for PCB's Method 3546

QC Batch No: L529576/L529576

The weight/volume extracted was reduced during the extraction procedure due to the nature of the sample. Reporting limits are factored for the sample size reduction.

High Temp/Pressure Extraction for 8270 Method 3546

QC Batch No: L528991/L528991

The weight/volume extracted was reduced during the extraction procedure due to the nature of the sample. Reporting limits are factored for the sample size reduction.

Metals Analysis Method 6010D

Sample 74491 Analyte: Aluminum QC Batch No: L529515

The matrix spike, matrix spike duplicate and the dilution test were all outside of the quality control acceptance ranges. Matrix interference is suspected.

Analyte: Arsenic QC Batch No: L529515

The matrix spike and/or the matrix spike duplicate was outside quality control acceptance ranges. A post digestion spike was performed and passed quality control acceptance ranges. No matrix interference is suspected.

Analyte: Calcium QC Batch No: L529515

The matrix spike, matrix spike duplicate and the dilution test were all outside of the quality control acceptance ranges. Matrix interference is suspected.

Analyte: Chromium QC Batch No: L529515

The matrix spike and/or the matrix spike duplicate was outside quality control acceptance ranges. A post digestion spike was performed and passed quality control acceptance ranges. No matrix interference is suspected.

Analyte: Copper QC Batch No: L529515

The matrix spike, matrix spike duplicate and the dilution test were all outside of the quality control acceptance ranges. Matrix interference is suspected.



Analyte: Iron

QC Batch No: L529515

The matrix spike and/or the matrix spike duplicate was outside quality control acceptance ranges. A dilution test was performed and passed quality control acceptance ranges. No matrix interference is suspected.

Analyte: Potassium QC Batch No: L529515

The matrix spike, matrix spike duplicate and the dilution test were all outside of the quality control acceptance ranges. Matrix interference is suspected.

Analyte: Magnesium QC Batch No: L529515

The matrix spike, matrix spike duplicate and the dilution test were all outside of the quality control acceptance ranges. Matrix interference is suspected.

Analyte: Manganese QC Batch No: L529515

The matrix spike, matrix spike duplicate and the dilution test were all outside of the quality control acceptance ranges. Matrix interference is suspected.

Analyte: Sodium QC Batch No: L529515

The matrix spike, matrix spike duplicate and the dilution test were all outside of the quality control acceptance ranges. Matrix interference is suspected.

Analyte: Phosphorus QC Batch No: L529515

The matrix spike, matrix spike duplicate and the dilution test were all outside of the quality control acceptance ranges. Matrix interference is suspected.

Analyte: Sulfur

QC Batch No: L529515

The matrix spike, matrix spike duplicate and the dilution test were all outside of the quality control acceptance ranges. Matrix interference is suspected.

Analyte: Zinc

QC Batch No: L529515

The matrix spike, matrix spike duplicate and the dilution test were all outside of the quality control acceptance ranges. Matrix interference is suspected.

Volatile Organic Compounds - GC/MS Method 8260B

Sample 74489 (Class a EQ Biosolids) Analyte: 1,2-Dichloroethane-d4 QC Batch No: L529021/L529014

Surrogate(s) exhibited a high bias in this project sample where no target analytes were detected. The high recovery(s) had no impact on the data. Batch QC samples (method blank and laboratory control samples) all showed surrogates within QC limits.



Shipment Receipt Form

Customer Number: **09570**Customer Name: **NEFCO**Report Number: **20-357-0006**

Shipping Method

Fed Ex	O US Postal	◯ Lab		Other :	
UPS	Client	Ourie	r	Thermometer ID:	,
Shipping conta	iner/cooler uncomprom	ised?	Yes	○ No	
Number of coo	lers/boxes received		1		
Custody seals i	intact on shipping conta	iner/cooler?		○ No	Not Present
Custody seals i	intact on sample bottles	?	Yes	○ No	Not Present
Chain of Custo	dy (COC) present?	(Yes	○ No	
COC agrees wi	ith sample label(s)?	(Yes	○ No	
COC properly of	completed	(Yes	○ No	
Samples in pro	per containers?	(Yes	○ No	
Sample contair	ners intact?	(Yes	○ No	
Sufficient samp	ole volume for indicated	test(s)?	Yes	○ No	
All samples rec	ceived within holding tim	ne?	Yes	○ No	
Cooler tempera	ature in compliance?	(Yes	○ No	
	s arrived at the laborato considered acceptable egun.		Yes	○ No	
Water - Sample	e containers properly pr	eserved) Yes	○ No	● N/A
Water - VOA vi	als free of headspace	(Yes	○ No	● N/A
Trip Blanks rec	eived with VOAs	(O Yes	○ No	● N/A
Soil VOA metho	od 5035 – compliance o	criteria met) Yes	○ No	● N/A
High conce	ntration container (48 h	r)	Lov	w concentration EnC	ore samplers (48 hr)
High concer	ntration pre-weighed (m	ethanol -14 d)	☐ Lov	w conc pre-weighed	vials (Sod Bis -14 d)
Special precau	tions or instructions inc	luded?	Yes	● No	
Comments:					

Page 9 of 15

Date & Time: 12/22/2020 15:04:20

Signature: Samantha Clarke



WASTEWATER SAMP

NEECO

20-357-0006 09570 12-22-2020 15:02:15

F CUSTODY

Account # 09570

inalytical.com

7621 Whitepine Road Richmond VA 2323' Class A EQ Biosolids

Submitted By	Charge To	Сору То
Jordan G Dimitrov	NEFCO	Jordan Dimitrov
97 East Howard St.	97 East Howard St.	jdimitrov@nefcobiosolids.com
Quincy, MA 02169	Quincy, MA 02169	

		Quincy, MA	02169		Quincy, MA 02169											
Project		Phone: (617)	376-2500, ex	t.107	Fax:				E-mail:	jdimitrov	@nefcc	nefcobiosolids.com				
					Sample	e Informa	ation	TE WILL					STATE			
	Lab Number	Co	ollection Informa	ation	Co	ntainer Infor	mation		- 1	Please W	rite in Des	sired Tests			THE STATE	
Sample ID	(Lab Use Only)	Туре	Date	Time	Number of Bottles	Туре	Volume									
Class A EQ Biosolids	74489	Grab _x Composite	12/14/2020 12/21/2020	14:00 14:00	2	_2 Glass Plastic	16 oz pint qt	see a	tached							
		Grab Composite				Glass Plastic	oz pint qt									
		Grab Composite	_			Glass Plastic	oz pint qt									
		Grab Composite				Glass Plastic	oz pint qt									
Rel	inquished By: ((Signature)	Date	Time		Received By	: (Signature		Da	ate	Time	Mary .				
Junton	1		12-21-20	15:00			- (oignatoro			10	11110					
	Fedex				Down	anth	a Cla	uke	12/0	melan	3:19	Bom				
Test Available							Special Instructions or Remarks									
Nitrogen Series: Total Kjeldahl, Ammonium, Nitrate & Organic Nitrogen. Phosphorus(total, orthor), Poatssium, Sulfate-Sulfur, Calcium, Magnesium, Sodium, Iro Manganese, Copper, Zinc, Arsenic, Barium, Cadmium, Chromium, Cobalt, Molybdenum Selenium, Silver. Nickel. Acidity (Total), Alkalinity (Total), Biochemical Oxygen Demand					ybdenum, N	fercury, Lea	ury, Lead, collected by NEFCO Operators at NEFCO-Quincy, MA									
Chemical Ox	xygen Deman	d, Chloride, Cor Ived, Suspended	ductance (Spe	ecific), Hexav	alent Chro	omium, Oil a	and Grease	(EPA),								

Please report on a dry weight basis

Please report on a dry	y weig
	Units
Parameter	
Percent Solids	%
Volatile Solids	%
pH	SU
Alkalinity as CaCO ₃ ⁽³⁾	mg/kg
Nitrogen, (Nitrate)	mg/kg
Nitrogen, (Ammonium)	mg/kg
Nitrogen, (Total Kjeldahl)	mg/kg
Phosphorus, (Total)	mg/kg
Potassium, (Total)	mg/kg
Arsenic	mg/kg
Cadmium	mg/kg
Copper	mg/kg
Lead	mg/kg
Mercury	mg/kg
Molybdenum	mg/kg
Nickel	mg/kg
Selenium	mg/kg
Zinc	mg/kg
	-

Polychlorinated biphenols	mg/kg
rotychiormated biphenois	IIIg/ kg

Parameter Biosolids Co	ncentrations ⁽¹⁾
Aldrin/dieldrin (total)	mg/kg
Benzo (a) pyrene	mg/kg
Chlordane	mg/kg
DDT/DDE/DDD (total) ⁽²⁾	mg/kg
Dimethyl nitrosamine	mg/kg
Heptachlor	mg/kg
Hexachlorobenzene	mg/kg
	Page 11 of 15

Hexad	chlorobutadiene	mg/kg	
Linda	ne	mg/kg	
Тохар	ohene	mg/kg	
Trich	loroethylene	mg/kg	
(1)	Values to be report	ed on a dry weight basis.	
			Trichloroethane; DDE = 1,1 = 1,1Bis (p-chlorophenyl)2,2-

Water Insoluble Nitrogen Water Soluble Nitrogen



WASTEWATER SAMPLE TRANSMITTAL FORM/CHAIN OF CUSTODY

Account #

09570

Waypoint Analytical

7621 Whitepine Road Richmond VA 23237 Tel: 804-743-9401 Fax: 804-271-6446 Email: supportva@waypointanalytical.com

Customer Information					
Submitted By	Charge To	Сору То			
Jordan G Dimitrov	NEFCO	Jordan Dimitrov			
97 East Howard St.	97 East Howard St.	jdimitrov@nefcobiosolids.com			
Quincy, MA 02169	Quincy, MA 02169				

					_	-								-		
Project		Phone: (617)	Phone: (617) 376-2500, ext.107 Fax:			E-mail:	jdimitro	ov@nefc	obiosolids.	com						
			21 A F L SA		Sample	Informa	ation			17. J	MARKE	NEVER N				William Control
	Lab Number	Co	ollection Informa	tion		ntainer Inform			Please Write in Desired Tests							in the state of
Sample ID	(Lab Use Only)	Туре	Date	Time	Number of Bottles	Туре	Volume									
Class A EC Biosolids	ì	Grab _x_ Composite	12/14/2020 12/21/2020	14:00 14:00	2	_2 Glass Plastic	pint qt	see a	tached							
		Grab Composite				Glass Plastic	oz pint qt									
		Grab Composite				Glass Plastic	oz pint qt									
		Grab Composite				Glass Plastic	oz pint qt									
Relinquished By: (Signature) Date Time		Received By: (Signature)			Date Time		е									
Nitrogon Co	rios: Total Kia	Test Available	The second secon	ranja Nitro						-70-2	Special	Instruction	s or Re	emarks		
Phosphorus Manganese Selenium, S Chemical O	(total, orthor), , Copper, Zind ilver. Nickel. / xygen Deman	eldahl, Ammoniu Poatssium, Su c, Arsenic, Bariu Acidity (Total), A d, Chloride, Cor elved, Suspende	lfate-Sulfur, Ca m, Cadmium, (lkalinity (Total) nductance (Spe	alcium, Mag Chromium, (, Biochemic ecific), Hexa	nesium, So Cobalt, Mol al Oxygen	ybdenum, N Demand (5	fercury, Leadays), Boro	n,	collect facility The re The te	ed by port w sting n	NEFCO	otional Qua Operators sented to \ performed by	at NEF VA DEC	CO-Quin	icy, MA	

Please report on a dry weight basis

	Units
Parameter	
Percent Solids	%
Volatile Solids	%
pH	SU
Alkalinity as CaCO ₃ ⁽³⁾	mg/kg
Nitrogen, (Nitrate)	mg/kg
Nitrogen, (Ammonium)	mg/kg
Nitrogen, (Total Kjeldahl)	mg/kg
Phosphorus, (Total)	mg/kg
Potassium, (Total)	mg/kg
Arsenic	mg/kg
Cadmium	mg/kg
Copper	mg/kg
Lead	mg/kg
Mercury	mg/kg
Molybdenum	mg/kg
Nickel	mg/kg
Selenium	mg/kg
Zinc	mg/kg

Polychlorinated hinhenols	mg/kg

Please report on a dry weight basis

Parameter	Biosolids Concentrations ⁽¹⁾
Aldrin/dieldrin (total)	mg/kg
Benzo (a) pyrene	mg/kg
Chlordane	mg/kg
DDT/DDE/DDD (total) ⁽²⁾	mg/kg
Dimethyl nitrosamine	mg/kg
Heptachlor	mg/kg
Hexachlorobenzene	mg/kg
Hexachlorobutadien e	mg/kg
Lindane	mg/kg
Toxaphene	mg/kg
Trichloroethylene	mg/kg

⁽¹⁾ Values to be reported on a dry weight basis.

Water Insoluble Nitrogen Water Soluble Nitrogen

⁽²⁾ Note: DDT = 2,2--Bis (p-chlorophenyl)--1,1,1—Trichloroethane; DDE = 1,1--Bis (p-chlorophenyl)--2,2—Dichloroethylene; DDD = 1,1--Bis (p-chlorophenyl)--2,2-- Dichloroethane



The Microbiology Division of Thielsch Engineering, Inc.



CERTIFICATE OF ANALYSIS

Jordan Dimitrov NEFCO 97 East Howard Street Quincy, MA 01148

RE: Biosolids Fecal Coli (N/A)

ESS Laboratory Work Order Number: 20L0869

This signed Certificate of Analysis is our approved release of your analytical results. These results are only representative of sample aliquots received at the laboratory. ESS Laboratory expects its clients to follow all regulatory sampling guidelines. Beginning with this page, the entire report has been paginated. This report should not be copied except in full without the approval of the laboratory. Samples will be disposed of thirty days after the final report has been delivered. If you have any questions or concerns, please feel free to call our Customer Service Department.

Laurel Stoddard

Laboratory Director

REVIEWED

By ESS Laboratory at 3:26 pm, Jan 07, 2021

Analytical Summary

The project as described above has been analyzed in accordance with the ESS Quality Assurance Plan. This plan utilizes the following methodologies: US EPA SW-846, US EPA Methods for Chemical Analysis of Water and Wastes per 40 CFR Part 136, APHA Standard Methods for the Examination of Water and Wastewater, American Society for Testing and Materials (ASTM), and other recognized methodologies. The analyses with these noted observations are in conformance to the Quality Assurance Plan. In chromatographic analysis, manual integration is frequently used instead of automated integration because it produces more accurate results.

The test results present in this report are in compliance with TNI and relative state standards, and/or client Quality Assurance Project Plans (QAPP). The laboratory has reviewed the following: Sample Preservations, Hold Times, Initial Calibrations, Continuing Calibrations, Method Blanks, Blank Spikes, Blank Spike Duplicates, Duplicates, Matrix Spikes, Matrix Spike Duplicates, Surrogates and Internal Standards. Any results which were found to be outside of the recommended ranges stated in our SOPs will be noted in the Project Narrative.

Subcontracted Analyses

BAL Laboratory - Cranston, RI

Fecal Coliform



The Microbiology Division of Thielsch Engineering, Inc.



CERTIFICATE OF ANALYSIS

Client Name: NEFCO

Client Project ID: Biosolids Fecal Coli ESS Laboratory Work Order: 20L0869

SAMPLE RECEIPT

The following samples were received on December 29, 2020 for the analyses specified on the enclosed Chain of Custody Record.

Lab Number 20L0869-01

Sample Name EQ Class A Biosolids **Matrix** Solid

Analysis %S, 2540G, 9221E

185 Frances Avenue, Cranston, RI 02910-2211

Tel: 401-461-7181

Fax: 401-461-4486 ◆ Service http://www.ESSLaboratory.com



The Microbiology Division of Thielsch Engineering, Inc.



CERTIFICATE OF ANALYSIS

Client Name: NEFCO

Client Project ID: Biosolids Fecal Coli ESS Laboratory Work Order: 20L0869

PROJECT NARRATIVE

No unusual observations noted.

End of Project Narrative.

DATA USABILITY LINKS

To ensure you are viewing the most current version of the documents below, please clear your internet cookies for www.ESSLaboratory.com. Consult your IT Support personnel for information on how to clear your internet cookies.

Definitions of Quality Control Parameters

Semivolatile Organics Internal Standard Information

Semivolatile Organics Surrogate Information

Volatile Organics Internal Standard Information

Volatile Organics Surrogate Information

EPH and VPH Alkane Lists

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The Microbiology Division of Thielsch Engineering, Inc.



CERTIFICATE OF ANALYSIS

Client Name: NEFCO

Client Project ID: Biosolids Fecal Coli ESS Laboratory Work Order: 20L0869

CURRENT SW-846 METHODOLOGY VERSIONS

Analytical Methods

1010A - Flashpoint

6010C - ICP

6020A - ICP MS

7010 - Graphite Furnace

7196A - Hexavalent Chromium

7470A - Aqueous Mercury

7471B - Solid Mercury

8011 - EDB/DBCP/TCP

8015C - GRO/DRO

8081B - Pesticides

8082A - PCB

8100M - TPH

8151A - Herbicides

8260B - VOA

8270D - SVOA

8270D SIM - SVOA Low Level

9014 - Cyanide

9038 - Sulfate

9040C - Aqueous pH

9045D - Solid pH (Corrosivity)

9050A - Specific Conductance

9056A - Anions (IC)

9060A - TOC

9095B - Paint Filter

MADEP 04-1.1 - EPH

MADEP 18-2.1 - VPH

Prep Methods

3005A - Aqueous ICP Digestion

3020A - Aqueous Graphite Furnace / ICP MS Digestion

3050B - Solid ICP / Graphite Furnace / ICP MS Digestion

3060A - Solid Hexavalent Chromium Digestion

3510C - Separatory Funnel Extraction

3520C - Liquid / Liquid Extraction

3540C - Manual Soxhlet Extraction

3541 - Automated Soxhlet Extraction

3546 - Microwave Extraction

3580A - Waste Dilution

5030B - Aqueous Purge and Trap

5030C - Aqueous Purge and Trap

5035A - Solid Purge and Trap

SW846 Reactivity Methods 7.3.3.2 (Reactive Cyanide) and 7.3.4.1 (Reactive Sulfide) have been withdrawn by EPA. These methods are reported per client request and are not NELAP accredited.



The Microbiology Division of Thielsch Engineering, Inc.



CERTIFICATE OF ANALYSIS

Client Name: NEFCO

Client Project ID: Biosolids Fecal Coli Client Sample ID: EQ Class A Biosolids

Date Sampled: 12/29/20 11:30

Percent Solids: 93

ESS Laboratory Work Order: 20L0869 ESS Laboratory Sample ID: 20L0869-01

Sample Matrix: Solid

Classical Chemistry

 Analyte Percent Solid
 Results (MRL)
 MDL 2540G
 Limit Limit

185 Frances Avenue, Cranston, RI 02910-2211

Tel: 401-461-7181

Fax: 401-461-4486

◆ Service

http://www.ESSLaboratory.com



The Microbiology Division of Thielsch Engineering, Inc.



CERTIFICATE OF ANALYSIS

Client Name: NEFCO

Client Project ID: Biosolids Fecal Coli Client Sample ID: EQ Class A Biosolids

Date Sampled: 12/29/20 11:30

Percent Solids: 93

ESS Laboratory Work Order: 20L0869 ESS Laboratory Sample ID: 20L0869-01

Sample Matrix: Solid

Microbiology

Analyte Fecal Coliform	Results (MRL) <2 (N/A)	<u>MDL</u>	Method 9221E	<u>Limit</u>	Analyst RJB	Analyzed 12/30/20 15:15	<u>Units</u> MPN/g dry
Percent Solids	93 (N/A)		%S		FSS	12/30/20 15:15	%
rercent Sonus	93 UN/A1		/0.5		ESS	12/30/20 13.13	/0



The Microbiology Division of Thielsch Engineering, Inc.



CERTIFICATE OF ANALYSIS

Client Name: NEFCO

Client Project ID: Biosolids Fecal Coli ESS Laboratory Work Order: 20L0869

Notes and Definitions

<	Less	than	the	Method	Detection	Limit.

ND Analyte NOT DETECTED at or above the MRL (LOQ), LOD for DoD Reports, MDL for J-Flagged Analytes

dry Sample results reported on a dry weight basis

RPD Relative Percent Difference Method Detection Limit MDL MRL Method Reporting Limit Limit of Detection LOD Limit of Quantitation LOQ **Detection Limit** DL Initial Volume I/V F/V Final Volume

Subcontracted analysis; see attached report

1 Range result excludes concentrations of surrogates and/or internal standards eluting in that range.

2 Range result excludes concentrations of target analytes eluting in that range. 3 Range result excludes the concentration of the C9-C10 aromatic range.

Avg Results reported as a mathematical average.

NR No Recovery

[CALC] Calculated Analyte

SUB Subcontracted analysis; see attached report

RL Reporting Limit

EDL Estimated Detection Limit
MF Membrane Filtration
MPN Most Probably Number
TNTC Too numerous to Count
CFU Colony Forming Units

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http://www.ESSLaboratory.com

The Microbiology Division of Thielsch Engineering, Inc.



CERTIFICATE OF ANALYSIS

Client Name: NEFCO

Client Project ID: Biosolids Fecal Coli ESS Laboratory Work Order: 20L0869

ESS LABORATORY CERTIFICATIONS AND ACCREDITATIONS

ENVIRONMENTAL

Rhode Island Potable and Non Potable Water: LAI00179 http://www.health.ri.gov/find/labs/analytical/ESS.pdf

Connecticut Potable and Non Potable Water, Solid and Hazardous Waste: PH-0750 http://www.ct.gov/dph/lib/dph/environmental_health/environmental_laboratories/pdf/OutofStateCommercialLaboratories.pdf

Maine Potable and Non Potable Water, and Solid and Hazardous Waste: RI00002 http://www.maine.gov/dhhs/mecdc/environmental-health/dwp/partners/labCert.shtml

Massachusetts Potable and Non Potable Water: M-RI002 http://public.dep.state.ma.us/Labcert/Labcert.aspx

New Hampshire (NELAP accredited) Potable and Non Potable Water, Solid and Hazardous Waste: 2424 http://des.nh.gov/organization/divisions/water/dwgb/nhelap/index.htm

New York (NELAP accredited) Non Potable Water, Solid and Hazardous Waste: 11313 http://www.wadsworth.org/labcert/elap/comm.html

New Jersey (NELAP accredited) Non Potable Water, Solid and Hazardous Waste: RI006 http://datamine2.state.nj.us/DEP_OPRA/OpraMain/pi_main?mode=pi_by_site&sort_order=PI_NAMEA&Select+a+Site:=58715

United States Department of Agriculture Soil Permit: P330-12-00139

Pennsylvania: 68-01752

 $\underline{http://www.dep.pa.gov/Business/Other Programs/Labs/Pages/Laboratory-Accreditation-Program.aspx}$

185 Frances Avenue, Cranston, RI 02910-2211

Tel: 401-461-7181

Fax: 401-461-4486

http://www.ESSLaboratory.com

ESS Laboratory Sample and Cooler Receipt Checklist

Client	:N	EFCO - TB		-		Project ID:	20L0869	<u>-</u> _
Shipped/D	elivered Via:	ESS Courier				Received: Due Date:	12/29/2020 1/6/2021	
				•		for Project:	5 Day	<u> </u>
	nanifest present?		No]	6. Does COC	match bottles?		Yes
			NI-	1	7. Is COC co	mplete and correct?		Yes
2. Were cu	ustody seals present?	L.	No	J	8. Were sam	ples received intact	?	Yes
3. Is radiat	ion count <100 CPM?	· [Yes]				
	oler Present?	vith: <u>lce</u>	Yes]			hort holds & rushes? I outside of hold time?	Yes No / NA
5. Was CC	OC signed and dated I	by client?	Yes]				
							-	
	bcontracting needed? Sample IDs: Analysis: TAT:		/ No			As received? s in aqueous VOAs		Yes / No Yes / No Yes / No / NA
a. If metals	e samples properly pros s preserved upon rece vel VOA vials frozen:		res / No Date: Date:		_ Time: _ _ Time: _		By: By:	_
Sample Re	ceiving Notes:							
	nere a need to contactere a need to contacted?		? Date:	Yes / No. Yes / No	Time: _		Ву:	
Sample Number	Container Prope		Sufficient Volume	Contain	er Type	Preservative	Record pH (Cy Pesti	
1	123034 Yes	N/A	Yes	Other	Glass	NP		-
Are barcode Are all Flas Are all Hex Are all QC	ontainers scanned in e labels on correct co hpoint stickers attach Chrome stickers atta stickers attached? ickers attached if bub	ntainers? ed/container ID # ched?	circled?	Initials	Yes/No/NA Yes/No/NA Yes/No/NA Yes/No/NA Yes/No/NA)		
	\ \					•		
Completed By:		auks Da	MD	Date & Time:		18:30	retrain	
Reviewed By:		t.	V	Date & Time:		12/29/20	1857	
Delivered	()	#		Date & Time.			1057	
Ву:		<u> </u>				12/29/2	0 1857	

CHAIN OF CUSTODY DOLZ 305 **ESS Laboratory** Division of Thielsch Engineering, Inc. Turn Time X Standard Other Reporting Limits 185 Frances Avenue, Cranston, RI 02910-2211 If faster than 5 days, prior approval by laboratory is required # Tel. (401) 461-7181 Fax (401) 461-4486 State where samples were collected from: MA RI CT NH NJ NY ME Other www.esslaboratory.com Electronic Deliverable Is this project for any of the following:
MA-MCP* Navy USACE X Yes No Format pdf Other Co. Name Project # Project Name (20 Char. or less) Circle and/or Write Required Analysis NEFCO Biosolids Fecal Coli No Targets Contact Person TAL23 Address 8 NBC7 524.2 Jordan Dimitrov 97 East Howard St. PP13 TCLP8 MCP MCPw/Hg City Number of Containers State Zip 02169 PO# Ouincy ЕРН MA Type of Containers 625 RCRAS RCRA8 Telephone# 8082 7CB Fax # 2211 Email Address 8015 50015 617 376 2500 x-107 jdimitrov@nefcobiosolids.com 8270 ESS LAB 808 l Pessilvides Date Collection O) 8100 TPH Sample# CKAB Time Sample Identification (20 Char. or less) S 12-29-2020 11:30 x SD EQ Class A Biosolids 1 G х Container Type: P-Poly G-Glass S-Sterile V-VOA Matrix: S-Soil SD-Solid D-Sludge WW-Waste Water GW-Ground Water SW-Surface Water DW-Drinking Water O-Oil W-Wipes F-Filters Cooler Present _Yes ___ No Internal Use Only Comments: Seals Intact This is a sample of EQ Biosolids, collected by Jordan Dimitrov from No NA: [] Pickup Cooler Temp: [] Technicians Train 1 at NEFCO Plant, Quincy, MA.

*MADEP requires that all additional calibrated analytes found during analysis be disclosed.

Date/Time

Date/Time

1448

12/30/20

Received by: (Signature)

Relinquished by: (Signature)

Jorden Director Belinquished by: (Signature)

Please fax all changes to Chain of Custody in writing.

Date/Time

Date/Time

123020 1447

Relinquished by: (Signature)

Relinquished by: (Signature)

Date/Time

Date/Time

1 (White) Lab Copy 2 (Yellow) Client Receipt

Received by: (Signature)

Received by: (Signature)

Date/Time

Date/Time

ESS Laboratory
Division of Thielsch Engineering, Inc.
185 Frances Avenue, Cranston, RI 02910-2211

CHAIN OF CUSTODY	Page	of
Turn Time X Standard Other Reporting Limits		ESS LAB PROJECT ID
If faster than 5 days, prior approval by laboratory is required #		2727860

85 Frances Avenue, Cranston, RI 02910-2211 Tel. (401) 461-7181 Fax (401) 461-4486 If faster than 5 days, prior approval by laboratory is requestionable. State where samples were collected from: MA RI CT NH NI NY ME Oth									equired	#									2	<u>D2</u>	<u>'_</u> _	<u> 80</u>	<u> 19</u>					
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Telephone # 617_3	76 2500 x-1	107	Fax a	#						Address trov@r		osolids.com		Type of Containers	8260	.l BTEX	8015 DRO	808. PCB	70 (RCRA5 RCRA8	3 MCP	922						
ESS LAB Sample#	Date	Collec Tim		COMP	GRAB	MATRIX	S	Sample I	dentifi	cation (20 Char. or l	css)	Number of	Туре о	82	802 MTBE/	8100 TPH	8081 8082 608 608 Pesitoides PCB Pesticides PCB	82	RCRA:	TCLP8	SM						
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Container'	Type: P-Poly G-Gla	ss S-Sto	erile V	/-VO	A N	Matrix	:: S-Soil SE	D-Solid	D-S	ludge `	WW-Wast	e Water GW-Gr	ound V	Water	SW-S	Surfac	e Wat	ter I	W-L)rinki	ng Wa	iter	0-0	il W	-Wipe	es F	-Filte	rs
Cooler Pres Seals Intact Cooler Tem			NA:			_ []	rnal Use Only] Pickup] Technicians				s is a	a sample o at NEFCO P							ect	ed	by	Jor	dan	Di	mit:	rov	fr	om
Relinguish	ed by: (Signature)	Dat 2/29/	re/Time UU (Z	y (B		dly (Signard		(2/2	Date/T	ime V.Y.	Relinguished by		akare)	2	Date/ 25\ 720	Time	319	Rec	cejvec Tay	I by: (iture)		D 12/20	Oate/T	ime	19
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					<u> </u>										<u> </u>		1								11 .			_



7/1/2020

NEFCO Rick Twigg 400 E Offutt St. Cumberland, MD, 21502

Ref: Analytical Testing

Report Number: 20-169-0003

Project Description: Pellets Post Screener

Dear Rick Twigg:

Waypoint Analytical Virginia, Inc. received sample(s) on 6/17/2020 for the analyses presented in the following report.

The above referenced project has been analyzed per your instructions. The analyses were performed in accordance with the applicable analytical method. Sub-contracted testing is noted on the Sample Summary Table if applicable.

The analytical data has been validated using standard quality control measures performed as required by the analytical method. Quality Assurance, method validations, instrumentation maintenance and calibration for all parameters (NELAP and non-NELAP) were performed in accordance with guidelines established by the USEPA (including 40 CFR 136 Method Update Rule May 2012) and NELAC unless otherwise indicated.

Certain parameters (chlorine, pH, dissolved oxygen, sulfite...) are required to be analyzed within 15 minutes of sampling. Usually, but not always, any field parameter analyzed at the laboratory is outside of this holding time. Refer to sample analysis time for confirmation of holding time compliance.

The results are shown on the attached Report of Analysis(s). Results for solid matrices are reported on an asreceived basis unless otherwise indicated. This report shall not be reproduced except in full and relates only to the samples included in this report.

Please do not hesitate to contact me or client services if you have any questions or need additional information.

Sincerely,

Pauric McGroary

Agronomist

Laboratory's liability in any claim relating to analyses performed shall be limited to, at laboratory's option, repeating the analysis in question at laboratory's expense, or the refund of the charges paid for performance of said analysis.



Sample Summary Table

Report Number: 20-169-0003

Client Project Description: Pellets Post Screener

Lab No	Client Sample ID	Matrix	Date Collected	Date Received	Method	Lab ID
72663	Pellets Post Screener	Solids	06/16/2020 13:00	06/17/2020		
72663	Pellets Post Screener	Solids	06/16/2020 13:00	06/17/2020	AOAC 2.4.14	WP MTN -
72663	Pellets Post Screener	Solids	06/16/2020 13:00	06/17/2020	4500NO3F-2011	WP MTN -
72663	Pellets Post Screener	Solids	06/16/2020 13:00	06/17/2020	SM-2540G	WP MTN -
72663	Pellets Post Screener	Solids	06/16/2020 13:00	06/17/2020	SM-4500-NH3C	WP MTN -
72663	Pellets Post Screener	Solids	06/16/2020 13:00	06/17/2020	SM-4500-NH3C-TKN	WP MTN -
72663	Pellets Post Screener	Solids	06/16/2020 13:00	06/17/2020	AOAC 2.5.07	WP MTN -
72663	Pellets Post Screener	Solids	06/16/2020 13:00	06/17/2020	6010D	WP MTN -
72663	Pellets Post Screener	Solids	06/16/2020 13:00	06/17/2020	SW-7471B	WP MTN -
72663	Pellets Post Screener	Solids	06/16/2020 13:00	06/17/2020	9045D	WP MTN -
72663	Pellets Post Screener	Solids	06/16/2020 13:00	06/17/2020	AOAC 993.31	WP MTN -



Rick Twigg

NEFCO Project Pellets Post Screener

Rick Twigg 400 E Offutt St. Cumberland , MD 21502

Information:

Report Date: 07/01/2020 Received: 06/17/2020

Paurie

Mc George

Submitted By: Rick Twigg
Report Number: 20-169-0003

REPORT OF ANALYSIS

Pauric McGroary Agronomist

Lab No: 72663 Matrix: Solids

Sample ID : **Pellets Post Screener** Sampled: **6/16/2020 13:00**

Test	Results	Units	MQL	DF	Date / Time Analyzed	Ву	Analytical Method
Moisture	9.64	%	0.010	1	06/23/20 17:02	FMM	SM-2540G
Available Phosphorus as P2O5	<0.110	% - dry	0.110	1	06/23/20 14:45	DXT	AOAC 993.31
Available Potassium (as K2O)	<0.232	% - dry	0.232	1	06/26/20 12:42	JRF	AOAC 2.5.07
Water Insoluble Nitrogen	3.84	% - dry	0.011	1	07/01/20 10:30	JPJ	AOAC 2.4.14
Water Soluble Nitrogen	6530	mg/Kg - dry	277	1	06/25/20 10:00		CALCULATION
Test	Results	Units	MQL	DF	Date / Time Analyzed	Ву	Analytical Method
Ammonia Nitrogen	2910	mg/Kg - dry	27.7	1	06/26/20 15:00	JPJ	SM-4500-NH3C
Nitrate+Nitrite-N	15.3	mg/Kg - dry	5.46	1	06/25/20 14:34	ZBD	4500NO3F-2011
Organic N	42100	mg/Kg - dry	277	1	06/25/20 10:00		CALCULATION
pH	7.4	s.u.		1	06/25/20 06:56	JSL	9045D
Total Solids	90.4	%	0.010	1	06/23/20 17:02	FMM	SM-2540G
Total Volatile Solids	59.4	%	0.010	1	06/23/20 17:02	FMM	SM-2540G
Total Kjeldahl Nitrogen	44900	mg/Kg - dry	277	1	06/25/20 10:00	JPJ S	SM-4500-NH3C-TKN
Phosphorus	24200	mg/Kg - dry	27.7	5	06/25/20 18:18	JTR	6010D
Aluminum	38800	mg/Kg - dry	27.7	5	06/25/20 18:18	JTR	6010D
Arsenic	5.61	mg/Kg - dry	2.77	5	06/25/20 18:18	JTR	6010D
Calcium	21400	mg/Kg - dry	277	5	06/25/20 18:18	JTR	6010D
Cadmium	0.763	mg/Kg - dry	0.111	1	06/24/20 18:04	TJS	6010D
Chromium	19.8	mg/Kg - dry	0.276	1	06/24/20 18:04	TJS	6010D

Qualifiers/ Definitions DF Dilution Factor

MQL

Method Quantitation Limit

L Limit Exceeded



Rick Twigg

NEFCO Project Pellets Post Screener

Rick Twigg
400 E Offutt St. Information :

Report Date: 07/01/2020 Received: 06/17/2020

ic Mc George

Submitted By: Rick Twigg
Report Number: **20-169-0003**

72663

Lab No:

Cumberland , MD 21502

REPORT OF ANALYSISPauric McGroary
Agronomist

Matrix: Solids

Sample ID : **Pellets Post Screener** Sampled: **6/16/2020 13:00**

Test	Results	Units	MQL	DF	Date / Time Analyzed	Ву	Analytical Method
					<u> </u>		
Cannar			0.550		06/04/00 40 04	T 10	50405
Copper	219	mg/Kg - dry	0.553	1	06/24/20 18:04	TJS	6010D
Iron	13900	mg/Kg - dry	55.3	5	06/25/20 18:18	JTR	6010D
Lead	36.6	mg/Kg - dry	1.66	5	06/25/20 18:18	JTR	6010D
Magnesium	3170	mg/Kg - dry	5.53	1	06/24/20 18:04	TJS	6010D
Manganese	1060	mg/Kg - dry	2.77	5	06/25/20 18:18	JTR	6010D
Mercury	0.273	mg/Kg - dry	0.0171	1	06/24/20 12:13	DDB	SW-7471B
Molybdenum	3.70	mg/Kg - dry	0.276	1	06/24/20 18:04	TJS	6010D
Nickel	18.4	mg/Kg - dry	0.276	1	06/24/20 18:04	TJS	6010D
Potassium	1490	mg/Kg - dry	55.3	5	06/25/20 18:18	JTR	6010D
Selenium	2.72	mg/Kg - dry	0.553	1	06/24/20 18:04	TJS	6010D
Sodium	444	mg/Kg - dry	27.7	1	06/24/20 18:04	TJS	6010D
Zinc	489	mg/Kg - dry	1.38	1	06/24/20 18:04	TJS	6010D
Sulfur	8520	mg/Kg - dry	11.1	1	06/24/20 18:04	TJS	6010D

Qualifiers/ Definitions DF

Dilution Factor

MQL Method Quantitation Limit

L

Limit Exceeded



Shipment Receipt Form

Customer Number: **01130**Customer Name: **NEFCO**Report Number: **20-169-0003**

Shipping Method

Fed Ex	US Postal	◯ Lab		Other :	
UPS	Client	O Cou	rier	Thermometer ID:	
Shipping contai	ner/cooler uncompron	nised?	Yes	○ No	
Number of cool	lers/boxes received		1		
Custody seals i	ntact on shipping cont	ainer/cooler?	Yes	○ No	Not Present
Custody seals i	ntact on sample bottle	s?	O Yes	○ No	Not Present
Chain of Custo	dy (COC) present?		Yes	○ No	
COC agrees wi	th sample label(s)?		Yes	○ No	
COC properly o	completed		Yes	○ No	
Samples in pro	per containers?		Yes	○ No	
Sample contain	ners intact?		Yes	○ No	
Sufficient samp	ole volume for indicated	d test(s)?	Yes	○ No	
All samples rec	eived within holding tir	me?	Yes	○ No	
Cooler tempera	ture in compliance?		Yes	○ No	
	s arrived at the laboral considered acceptable gun.		Yes	○ No	
Water - Sample	e containers properly p	reserved	O Yes	○ No	● N/A
Water - VOA via	als free of headspace		O Yes	○ No	● N/A
Trip Blanks rec	eived with VOAs		O Yes	○ No	● N/A
Soil VOA metho	od 5035 – compliance	criteria met	O Yes	○ No	● N/A
High concer	ntration container (48 h	nr)	Lov	v concentration EnC	Fore samplers (48 hr)
High concer	ntration pre-weighed (r	nethanol -14	d) Lov	v conc pre-weighed	vials (Sod Bis -14 d)
Special precaut	tions or instructions in	cluded?	O Yes	● No	
Comments:					

Page 5 of 6

Date & Time: 06/17/2020 13:21:36

Signature: Brandi Watson

NEFCO 400 E Offutt St Cumberland, MD 21502	Client Project Manager/Client Project Manager	ontact t Mai	nage	r NE	lling Inform EFCO 10 E Offu Imberlan	itt St	04500		20-169-0003 01130 06-17-2020						***************************************
Project Description Pellets Post Screener	Project/Site Location (City 503 Metals/Cum MD	/state) berla	nd,	E	RUSH – A Special D Date Res	Additional Detection	l charges ; Limit(s)	apply	Pellets Post Screener 13:06:10 Groun P - Product M - Misc				· Groundwater		
Project Number	Project Manager Phone #			Pro	ject Mana	ger Fmail		-		ther					С
	301-722-23	80			/igg@r			s.cor	n	ase Orde	r Number			Site/Facility ID # 01130	
ANALYTICAL 7621 Whitepine Road Richmond, VA 23237 (804) 271-6446 Date Time Sample	Unless noted, all containers per Table II of 40 CFR Part 136. dentification	Number of Containers	Matrix (Refer to Key)	(G)rab or (C)omposite	SL 1	SL 2	503 METALS	NITROGEN SERIES	Hd	VOLATILE SOLIDS	AVAILABLE K20 AS P205	SOLUABLE K2O TKN AS %	SOLUBLENISCLUBLE NITROGEN AS %		2 ired :0
h	Screener)	1		C	1		Red	uired A	nalysis / P	reservati	ve				ents/Notes
1, 21, 11,	30 (1)				V	V	V	V	1	1	1	1	1	8 OZ	GLASS .
VIPE WILL	30 (1)			-					-			-			
111 1	(a) OTC		\vdash	\dashv						Paramonia.					
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6/16/20 080		+	\dashv	-											
6/16/20 1300	(4)	+	+	\dashv		-								80320	
		\forall	+	-	-		-							8089	
For Laboratory Use On ce Custody Lab	AND DESCRIPTION OF THE PARTY OF	Sample	d by (N	ame –	Print)				Client Par	made /6				80280	
Seals Y/N	Seals Shawi			rown	ing				Client Res				lids.com/	80285 Phone 301-722-2380 (O) 301-876-1956 (C
Blank/Cooler Temp		Stran	w	Ro	NATURE)	29			Date Ti	me 14:00	Receive	d by: (SI	GNATUR	E)	Date Time
			neunquished by: (SIGNATURE)					Pate Time Received by: (s			D			Date Time	
								- 1	Date 11	ne	Received	Tby (SIC	NATURE	1	Date Time

Temp belower 18



Cumberland MD, 21502

2019 Ninth Avenue PO Box 1925 Altoona, PA 16603 (814) 946-4306 FAIRWAY LABORATORIES

www.fairwaylaboratories.com

NELAP: PA 07-062, VA 460212 State Certifications: MD 275, WV 364

NEFCO Project: FECAL

400 East Offutt St. Project Number: [none] Reported:

Collector: CLIENT 07/02/20 10:17

Project Manager: Rick Twigg Number of Containers: 1

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Sample Type	Date Sampled	Date Received
PELLETS/POST SCREENER	0F22231-01	Solid	Grab	06/18/20 10:30	06/18/20 17:10

Client Sample ID: PELLETS/POST SCREENER Date/Time Sampled: 06/18/20 10:30

Laboratory Sample ID: 0F22231-01 (Solid/Grab)

					Date / Time	Analytical	*	
Analyte	Result	MDL	RL	Units	Analyzed	Method	Analyst	Note

Microbiological Parameters by Standard Methods 9221E + EPA 625/R-92/013 App F

Fecal Coliforms < 0.189 0.189 MPN/g dry 06/18/20 18:20 SM 9221 blm E+C-2006

Fairway Laboratories, Inc.

Reviewed and Submitted by:

MAT

Fairway Labs in Altoona, PA is a NELAP (National Environmental Laboratory Accreditation Program) accredited lab, and as such, certifies that all applicable test results meet the requirements of NELAP, unless otherwise stated on the analytical report.

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



2019 Ninth Avenue PO Box 1925 Altoona, PA 16603 (814) 946-4306

FAIRWAY LABORATORIES

NELAP: PA 07-062, VA 460212 State Certifications: MD 275, WV 364

www.fairwaylaboratories.com

NEFCO Project: **FECAL**

400 East Offutt St. Project Number: none Reported:

Cumberland MD, 21502 Collector: **CLIENT** 07/02/20 10:17

Project Manager: Rick Twigg Number of Containers:

Definitions:

If surrogate values are not within the indicated range, then the results are considered to be estimated.

Reporting limits are adjusted accordingly when samples are analyzed at a dilution due to the matrix.

MBAS, calculated as LAS, mol wt 348

If the solid sample weight for VOC analysis does not fall within the 3.5-6.5 gram range, the results are considered estimated values.

Unless otherwise noted, all results for solids are reported on a dry weight basis.

Samples collected by Fairway Laboratories' personnel are done so in accordance with Standard Operating Procedures established by Fairway

Laboratories.

The following analyses are to be performed immediately upon sampling: pH, sulfite, chlorine residual, dissolved oxygen, filtration for ortho phosphorus, and ferrous iron. The date and time reported reflect the time the samples were analyzed at the laboratory; and should be

considered as analyzed outside the EPA holding time.

The following analytes are to be filtered immediately upon sampling: Hexavalent Chromium. Filtration through a 0.45 micron filter within 15 minutes of sampling is required for compliance with the Clean Water Act (CWA) for reporting of hexavalent chromium to prevent

interconversion of chromium species.

Analysis location indicator:

D: Indicates analysis performed by Fairway Laboratories, Inc., 110 McCracken Run Rd., DuBois, PA 15801. PA DEP Chapter 252 certification: PA 33-00258.

E: Indicates analysis performed by Fairway Laboratories, Inc., 1920 East 38th Street, Erie, PA 16510. PA Registered Laboratory: PA 25-05907.

G: Indicates analysis performed by Fairway Laboratories, Inc., 4727 Route 30 Ste 204, Greensburg, PA 15601. PA DEP Chapter 252 certification: PA 65-00392.

P: Indicates analysis performed by Fairway Laboratories, Inc., 89 Kristi Rd., Pennsdale, PA 17756. PA DEP Chapter 252 certification: PA 41-04684.

W: Indicates analysis performed by Fairway Laboratories, Inc., 1980 Golden Mile Rd., Wysox, PA 18854. NELAP certification: PA 08-05622 and NY 12127.

Represents "less than" - indicates that the result was less than the RL, or the MDL if indicated for the parameter.

Method Detection Limit - is the lowest or minimum level that provides 99% confidence level that the analyte is detected. Any reported result

values that are less than the RL are considered estimated values. If Radiological results are reported, the MDC - Minimum Detectable

Concentration is shown in the MDL column.

RLReporting Limit - is the lowest or minimum level at which the analyte can be quantified.

[CALC] Indicates a calculated result. Calculations use results from other analyses performed under accredited methods.

Fairway Laboratories, Inc.

MDL

Fairway Labs in Altoona, PA is a NELAP (National Environmental Laboratory Accreditation Program) accredited lab, and as such, certifies that all applicable test results meet the requirements of NELAP, unless otherwise stated on the analytical

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2019 Ninth Avenue PO Box 1925 Altoona, PA 16603 (814) 946-4306

FAIRWAY LABORATORIES

www.fairwaylaboratories.com

NELAP: PA 07-062, VA 460212 State Certifications: MD 275, WV 364

NEFCO Project: FECAL

400 East Offutt St.

Project Number: [none] Reported:

Cumberland MD, 21502 Collector: CLIENT 07/02/20 10:17

Project Manager: Rick Twigg Number of Containers: 1

Terms & Conditions

Services provided by Fairway Laboratories Inc. are limited to the terms and conditions stated herein, unless otherwise agreed to in a formal contract.

CHAIN OF CUSTODY Fairway Laboratories Inc. ("Fairway," "us" or "we") will initiate a chain-of-custody/request for analysis upon sample receipt unless the client includes a completed form with the received sample(s). Upon request, Fairway will provide chain-of-custody forms for use.

CONFIDENTIALITY Fairway maintains confidentiality in all of our client interactions. The client's consent will be required before releasing information about the services provided.

CONTRACTS All contracts are subject to review and approval by Fairway's legal council. Each contract must be signed by a corporate officer.

PAYMENT/BILLING Unless otherwise set forth in a signed contract or purchase order, terms of payment are "NET 30 Days." The time allowed for payment shall begin based on the invoice date. A 1.5% per month service charge may be added to all unpaid balances beyond the initial 30 days. In its sole discretion, Fairway reserves the right to request payment before services and hold sample results for payment of due balances. We will not bill a third party without prior agreement among all parties acknowledging and accepting responsibility for payment.

SAMPLE COLLECTION AND SUBMISSION Clients not requesting collection services from Fairway are responsible for proper collection, preservation, packaging, and delivery of samples to the laboratory in accordance with current law and commercial practice. Fairway shall have no responsibility for sample integrity prior to the receipt of the sample(s) and/or for any inaccuracy in test or analyses results as a result of the failure of the client or any third party to maintain the integrity of samples prior to delivery to Fairway. All samples submitted must be accompanied by a completed chain of custody or similar document clearly noting the requested analyses, dates/time sampled, client contact information, and trail of custody. Samples received at the laboratory after business hours are verified on the next business day. Discrepancies are documented on the Receiving

SUBCONTRACTING Some analyses may require subcontracting to another laboratory. Unless the client indicates otherwise, this decision will be made by Fairway. Subcontracted work will be identified on the final report in accordance with NELAC requirements.

RETURN OF RESULTS Fairway routinely provides faxed or verbal results within 10 working days of receipt of sample(s) and a hard copy of the data results is routinely received via US Postal Service within 15 working days. At the request of the client, Fairway may offer expedited return of sample results. Surcharges may apply to rush requests. All rush requests must be pre-approved by Fairway. We reserve the right to charge an archive retrieval fee for results older than one (1) year from the date of the request. All records will be maintained by Fairway for 5 years, after which, they will be destroyed.

SAMPLE DISPOSAL Fairway will maintain samples for four (4) weeks after the sample receipt date. Fairway will dispose of samples which are not and/or do not contain hazardous wastes (as such term is defined by applicable federal or state law), unless prior arrangements have been made for long-term storage. Fairway reserves the right to charge a disposal fee for the proper disposal of samples found or suspected to contain hazardous waste. A return shipping charge will be invoiced for samples returned to the client at their request.

HAZARD COMMUNICATION The client has the responsibility to inform the laboratory of any hazardous characteristics known or suspected about the sample, and to provide information on hazard prevention and personal protection as necessary or otherwise required by applicable law.

WARRANTY AND LIMITATION OF LIABILITY For services rendered, Fairway warrants that it will apply its best scientific knowledge and judgment and to employ its best level of effort consistent with professional standards within the environmental testing industry in performing the analytical services requested by its clients. We disclaim any other warranties, expressed or implied by law. Fairway does not accept any legal responsibility for the purposes for which client uses the test results.

LITIGATION All costs associated with compliance to any subpoena for documents, for testimony in a court of law, or for any other purpose relating to work performed by Fairway Laboratories, Inc. shall be invoiced by Fairway and paid by client. These costs shall include, but are not limited to, hourly charges for the persons involved, travel, mileage, and accommodations and for any and all other expenses associated with said litigation.

Fairway Laboratories, Inc.

Fairway Labs in Altoona, PA is a NELAP (National Environmental Laboratory Accreditation Program) accredited lab, and as such, certifies that all applicable test results meet the requirements of NELAP, unless otherwise stated on the analytical report.

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

REQUEST FOR ANALYSIS

	FAIRWAY	_
Environmental Laboratory	FAIRWAY LABORATORIES	.•'

2019 9th Ave. P.O. Box 1925 Altoona, PA 16602 Phone: (814) 946-4306 Fax: (814) 946-8791

Client Page # . of

Please print. See back of COC for instructions/terms and conditions.			•	•			Fax: (814) 946-8791	-8791	
Client Name: A EFCO				Reportable to	hle to		Analyses Requested	Р	LAB USE ONLY
1	Re	Received on ice?	z z	PADEP?	E P ?		_		Work Order #
Cumberland, MIS 31503				Ye	Yes 🗆				のアインとろ
Contact: Rich Twigg	S	Sample Temp:	Ad	PWSID#					Attach #
Phone #: 301-876-1956				=					
388	-			4	Matrix				FLI Page #
Project Name: FECAL / FOST OCIOERLA	16		GRAB	T	1				_ ₃ •
Quote/PO#:			-10-		rs				
TAT: Normal 🗆 Rush 🗆	site	Composite	Composite	9	ine	AL			tracking #
Rush TAT subject to pre-approval and surcharge. A		STALL	Dira		nta				
Date Required:/ R	Coı	Military or AM/PM required	1/PM requir	d	er _				
Sample Description/Location	S	Start Start Date Time	End End Date Time	Boli Soli Wa	Oth	******			Bottle Type/Comments
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Page 5 of 5



10/2/2020

NEFCO Rick Twigg 400 E Offutt St. Cumberland, MD, 21502

Ref: Analytical Testing

Report Number: 20-260-0002

Project Description: Pellets Post Screener

Dear Rick Twigg:

Waypoint Analytical Virginia, Inc. received sample(s) on 9/16/2020 for the analyses presented in the following report.

The above referenced project has been analyzed per your instructions. The analyses were performed in accordance with the applicable analytical method. Sub-contracted testing is noted on the Sample Summary Table if applicable.

The analytical data has been validated using standard quality control measures performed as required by the analytical method. Quality Assurance, method validations, instrumentation maintenance and calibration for all parameters (NELAP and non-NELAP) were performed in accordance with guidelines established by the USEPA (including 40 CFR 136 Method Update Rule May 2012) and NELAC unless otherwise indicated.

Certain parameters (chlorine, pH, dissolved oxygen, sulfite...) are required to be analyzed within 15 minutes of sampling. Usually, but not always, any field parameter analyzed at the laboratory is outside of this holding time. Refer to sample analysis time for confirmation of holding time compliance.

The results are shown on the attached Report of Analysis(s). Results for solid matrices are reported on an asreceived basis unless otherwise indicated. This report shall not be reproduced except in full and relates only to the samples included in this report.

Please do not hesitate to contact me or client services if you have any questions or need additional information.

GROCKY

Sincerely,

Pauric McGroary Agronomist

Laboratory's liability in any claim relating to analyses performed shall be limited to, at laboratory's option, repeating the analysis in question at laboratory's expense, or the refund of the charges paid for performance of said analysis.



Sample Summary Table

Report Number: 20-260-0002

Client Project Description: Pellets Post Screener

Lab No	Client Sample ID	Matrix	Date Collected	Date Received	Method	Lab ID
73641	3 Month Composite	Solids	09/15/2020 15:00	09/16/2020		
73641	3 Month Composite	Solids	09/15/2020 15:00	09/16/2020	AOAC 2.4.14	WP MTN -
73641	3 Month Composite	Solids	09/15/2020 15:00	09/16/2020	4500NO3F-2011	WP MTN -
73641	3 Month Composite	Solids	09/15/2020 15:00	09/16/2020	SM-2540G	WP MTN -
73641	3 Month Composite	Solids	09/15/2020 15:00	09/16/2020	SM-4500-NH3C	WP MTN -
73641	3 Month Composite	Solids	09/15/2020 15:00	09/16/2020	SM-4500-NH3C-TKN	WP MTN -
73641	3 Month Composite	Solids	09/15/2020 15:00	09/16/2020	AOAC 2.5.07	WP MTN -
73641	3 Month Composite	Solids	09/15/2020 15:00	09/16/2020	6010D	WP MTN -
73641	3 Month Composite	Solids	09/15/2020 15:00	09/16/2020	SW-7471B	WP MTN -
73641	3 Month Composite	Solids	09/15/2020 15:00	09/16/2020	9045D	WP MTN -
73641	3 Month Composite	Solids	09/15/2020 15:00	09/16/2020	AOAC 993.31	WP MTN -



01130

Lab No:

NEFCO Rick Twigg 400 E Offutt St.

Cumberland , MD 21502

Project

Pellets Post Screener

Information:

Report Date: 10/02/2020 Received: 09/16/2020

Pauric Mc Groary Ph.D., CPAg

Agronomist

73641

Sample ID: 3 Month Composite

REPORT OF ANALYSIS Report Number: 20-260-0002

Matrix: Solids

Sampled: 9/15/2020 15:00

Test	Results	Units	MQL	DF	Date / Time Analyzed	Ву	Analytical Method
Moisture	4.49	%	0.010	1	09/21/20 16:42	FMM	SM-2540G
Available Phosphorus as P2O5	3.51	% - dry	0.104		09/24/20 09:41		AOAC 993.31
Available Potassium (as K2O)	0.139	% - dry			09/21/20 13:27	DXT	AOAC 2.5.07
Water Insoluble Nitrogen	3.51	% - dry	0.010		09/24/20 10:00	JPJ	AOAC 2.4.14
Water Soluble Nitrogen	3560	mg/Kg - dry	262		09/24/20 10:00		CALCULATION
Test	Results	Units	MQL	DF	Date / Time Analyzed	Ву	Analytical Method
Ammonia Nitrogen	2180	mg/Kg - dry	26.2	1	09/25/20 14:30	JPJ	SM-4500-NH3C
Nitrate+Nitrite-N	9.15	mg/Kg - dry	4.97	1	09/22/20 13:50	ZBD	4500NO3F-2011
Organic N	36400	mg/Kg - dry	262	1	09/25/20 10:00		CALCULATION
pH	7.5	s.u.		1	09/18/20 16:35	KEW	9045D
Total Solids	95.5	%	0.010	1	09/21/20 16:42	FMM	SM-2540G
Total Volatile Solids	55.3	%	0.010	1	09/21/20 16:42	FMM	SM-2540G
Total Kjeldahl Nitrogen	38600	mg/Kg - dry	262	1	09/25/20 10:00	JPJ S	SM-4500-NH3C-TKN
Phosphorus	22700	mg/Kg - dry	26.2	5	09/23/20 16:32	TJS	6010D
Aluminum	38700	mg/Kg - dry	26.2	5	09/23/20 16:32	TJS	6010D
Arsenic	6.41	mg/Kg - dry	0.523	1	09/22/20 17:58	TJS	6010D
Calcium	23700	mg/Kg - dry	262	5	09/23/20 16:32	TJS	6010D
Cadmium	1.07	mg/Kg - dry	0.105	1	09/22/20 17:58	TJS	6010D
Chromium	21.6	mg/Kg - dry	0.261	1	09/22/20 17:58	TJS	6010D

Qualifiers/ **Definitions** DF

Dilution Factor

MQL Method Quantitation Limit Limit Exceeded

L



01130

Lab No:

NEFCO Rick Twigg

400 E Offutt St. Cumberland , MD 21502 Project

Pellets Post Screener

Information:

Report Date: 10/02/2020 Received: 09/16/2020

Pavic

Pauric Mc Groary Ph.D., CPAg

Agronomist

Report Number : 20-260-0002

73641

Sample ID: 3 Month Composite

REPORT OF ANALYSIS

Matrix: Solids

Sampled: 9/15/2020 15:00

Test	Results	Units	MQL	DF	Date / Time Analyzed	Ву	Analytical Method
Copper	258	mg/Kg - dry	0.524	1	09/22/20 17:58	TJS	6010D
Iron	15400	mg/Kg - dry	52.4	5	09/23/20 16:32	TJS	6010D
Lead	54.0	mg/Kg - dry	0.314	1	09/22/20 17:58	TJS	6010D
Magnesium	3870	mg/Kg - dry	5.24	1	09/22/20 17:58	TJS	6010D
Manganese	901	mg/Kg - dry	2.62	5	09/23/20 16:32	TJS	6010D
Mercury	0.393	mg/Kg - dry	0.0158	1	09/22/20 12:20	DDB	SW-7471B
Molybdenum	6.70	mg/Kg - dry	0.261	1	09/22/20 17:58	TJS	6010D
Nickel	20.0	mg/Kg - dry	0.261	1	09/22/20 17:58	TJS	6010D
Potassium	1360	mg/Kg - dry	52.4	5	09/23/20 16:32	TJS	6010D
Selenium	1.68	mg/Kg - dry	0.523	1	09/22/20 17:58	TJS	6010D
Sodium	399	mg/Kg - dry	26.2	1	09/22/20 17:58	TJS	6010D
Zinc	673	mg/Kg - dry	6.54	5	09/23/20 16:32	TJS	6010D
Sulfur	9640	mg/Kg - dry	10.5	1	09/22/20 17:58	TJS	6010D

Qualifiers/ Definitions DF MQL Dilution Factor

Method Quantitation Limit

Limit Exceeded

L



Client: NEFCO CASE NARRATIVE

Project: Pellets Post Screener Lab Report Number: 20-260-0002

Date: 10/2/2020

Solids Total Mercury Analysis - CVAA Method 7471A

Sample 73664 Analyte: Mercury QC Batch No: L512539

The matrix spike, matrix spike duplicate and the post digestion spike were all outside of the quality control

acceptance ranges. Matrix interference is suspected



Shipment Receipt Form

Customer Number: **01130**Customer Name: **NEFCO**Report Number: **20-260-0002**

Shipping Method

Shipping container/cooler uncompromised? Number of coolers/boxes received Custody seals intact on shipping container/cooler? Yes No Not Preserved Custody seals intact on sample bottles? Yes No Coccusted yeas intact on sample bottles? Yes No Coccustody (Coc) present? Yes No Coccustody (Coccustody (Coccustody) Yes No Coccustody (Coccustody) Yes No No Coccustody (Coccustody) Yes No No Samples in proper containers? Yes No Sufficient sample volume for indicated test(s)? Yes No All samples received within holding time? Yes No Cocoler temperature in compliance? Yes No Cocoler/Samples arrived at the laboratory on ice. Samples were considered acceptable as cooling process had begun. Water - Sample containers properly preserved Yes No No N/A Water - VOA vials free of headspace Yes No N/A Trip Blanks received with VOAs Soil VOA method 5035 – compliance criteria met Yes No No N/A High concentration container (48 hr) Low conceptraved vials (Sod Bis -14 de Special precautions or instructions included? Yes No	Fed Ex	US Postal	O Lab		Other :		
Number of coolers/boxes received Custody seals intact on shipping container/cooler? Yes	UPS	Client	O Cour	ier	Thermometer ID:		
Custody seals intact on shipping container/cooler? Yes	Shipping conta	niner/cooler uncompron	nised?	Yes	○ No		
Custody seals intact on sample bottles? Chain of Custody (COC) present? Yes No COC agrees with sample label(s)? Yes No COC properly completed Yes No Samples in proper containers? Yes No Sample containers intact? Yes No Sufficient sample volume for indicated test(s)? Yes No All samples received within holding time? Yes No Cooler temperature in compliance? Yes No Cooler/Samples arrived at the laboratory on ice. Samples were considered acceptable as cooling process had begun. Water - Sample containers properly preserved Yes No No No No N/A Water - VOA vials free of headspace Yes No No N/A Trip Blanks received with VOAs Yes No No N/A High concentration container (48 hr) High concentration pre-weighed (methanol -14 d) Special precautions or instructions included? Yes No No Soli VOA method 5035 - compliance criteria met Yes No No N/A Low conc pre-weighed vials (Sod Bis -14 despecial precautions or instructions included? Yes No	Number of coo	olers/boxes received		1			
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· · · · · · · · · · · · · · · · · · ·	High conce	ntration pre-weighed (n	nethanol -14 d	d) Lo	w conc pre-weighed	vials (Sod Bis -14 d)
Comments:	Special precau	itions or instructions inc	cluded?	O Yes	● No		
	Comments:						

Signature: Brandi Watson Date & Time: 09/16/2020 13:49:41

Client Name/Address NEFCO 400 E Offutt St Cumberland, MD 21502	Rick Twigg/Plan		nage	r NE	illing Inform EFCO 10 E Offu umberlar	tt St	21502		T	NEF	FCO ets Post So			20-260-0002 01130 09-16-2020 13:45:33
Project Description Pellets Post Screener	Project/Site Location (City 503 Metals/Cum MD			E	RUSH – /	Additional Petection I ults Need	charges a	аррју	S Section		√ UPS		iPS ff	WW – Wastewater GW – Groundwater DW – Drinking Water S – Soil /Solid O – Oil
Project Number	Project Manager Phone # 301-722-23	880			oject Mana Vigg@I			s.com	Purcha	ther ase Orde	r Number			P - Product M - Misc Site/Facility ID # 01130
	Unless noted, all containers per Table II of 40 CFR Part 136. Identification	Number of Containers	Matrix (Refer to Key)	(G)rab or (C)omposite	SL 1	SL 2	503 METALS	NITROGEN SERIES	Hd	VOLATILE SOLIDS	AVAILABLE K20 AS P205	SOLUABLE K20 TKN AS %	SCLUBLEINSCLUBLE MITROGEN AS %	A Cool < 10C Na252O3 (Micro Only) B Cool <= 6C C H2SO4 pH<2 D None Required E NaOH pH>10 F HNO3 pH<2 G HCL pH<2 H H3PO4 pH<2 I Cool <= 6C NA252O3
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20 0900														Fee codes
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Blank/Cooler Temp	l	Relinqu	e Y	victor	MATURE)			9	ate Tin 5 20 ate Tin	500	Received	by: (SIG	NATUR	Date Time
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FAIRWAY LABORATORIES

www.fairwaylaboratories.com

NELAP: PA 07-062, VA 460212 State Certifications: MD 275, WV 364

NEFCO Project: FECAL

400 East Offutt St.

Project Number: [none] Reported:

Cumberland MD, 21502 Collector: CLIENT 09/23/20 10:08

Project Manager: Rick Twigg Number of Containers: 1

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Sample Type	Date Sampled	Date Received
PELLETS/POST SCREENER	0I13065-01	Solid	Grab	09/10/20 10:00	09/10/20 16:00

Client Sample ID: PELLETS/POST SCREENER Date/Time Sampled: 09/10/20 10:00

Laboratory Sample ID: 0I13065-01 (Solid/Grab)

					Date / Time	Analytical	*	
Analyte	Result	MDL	RL	Units	Analyzed	Method	Analyst	Note

Microbiological Parameters by Standard Methods 9221E + EPA 625/R-92/013 App F

Fairway Laboratories, Inc.

Reviewed and Submitted by:

mat

Accreditation Program) accredited lab, and as such, certifies that all applicable test results meet the requirements of NELAP, unless otherwise stated on the analytical report.

Fairway Labs in Altoona, PA is a NELAP (National Environmental Laboratory



FAIRWAY LABORATORIES

www.fairwaylaboratories.com

NELAP: PA 07-062, VA 460212 State Certifications: MD 275, WV 364

NEFCO Project: FECAL

400 East Offutt St.

Project Number: [none] Reported:

Cumberland MD, 21502 Collector: CLIENT 09/23/20 10:08

Project Manager: Rick Twigg Number of Containers: 1

Definitions:

If surrogate values are not within the indicated range, then the results are considered to be estimated.

Reporting limits are adjusted accordingly when samples are analyzed at a dilution due to the matrix.

MBAS, calculated as LAS, mol wt 348

If the solid sample weight for VOC analysis does not fall within the 3.5-6.5 gram range, the results are considered estimated values.

Unless otherwise noted, all results for solids are reported on a dry weight basis.

Samples collected by Fairway Laboratories' personnel are done so in accordance with Standard Operating Procedures established by Fairway

Laboratories.

The following analyses are to be performed immediately upon sampling: pH, sulfite, chlorine residual, dissolved oxygen, filtration for ortho

phosphorus, and ferrous iron. The date and time reported reflect the time the samples were analyzed at the laboratory; and should be

considered as analyzed outside the EPA holding time.

The following analytes are to be filtered immediately upon sampling: Hexavalent Chromium. Filtration through a 0.45 micron filter within 15

minutes of sampling is required for compliance with the Clean Water Act (CWA) for reporting of hexavalent chromium to prevent

interconversion of chromium species.

Analysis location indicator:

D: Indicates analysis performed by Fairway Laboratories, Inc., 110 McCracken Run Rd., DuBois, PA 15801. PA DEP Chapter 252

certification: PA 33-00258.

E: Indicates analysis performed by Fairway Laboratories, Inc., 1920 East 38th Street, Erie, PA 16510. PA Registered Laboratory: PA

25-05907.

G: Indicates analysis performed by Fairway Laboratories, Inc., 4727 Route 30 Ste 204, Greensburg, PA 15601. PA DEP Chapter 252 certification: PA 65-00392.

certification: PA 65-00392

P: Indicates analysis performed by Fairway Laboratories, Inc., 89 Kristi Rd., Pennsdale, PA 17756. PA DEP Chapter 252 certification: PA

41-04684.

W: Indicates analysis performed by Fairway Laboratories, Inc., 1980 Golden Mile Rd., Wysox, PA 18854. NELAP certification: PA

08-05622 and NY 12127.

Represents "less than" - indicates that the result was less than the RL, or the MDL if indicated for the parameter.

MDL Method Detection Limit - is the lowest or minimum level that provides 99% confidence level that the analyte is detected. Any reported result

values that are less than the RL are considered estimated values. If Radiological results are reported, the MDC - Minimum Detectable

Concentration is shown in the MDL column.

RL Reporting Limit - is the lowest or minimum level at which the analyte can be quantified.

[CALC] Indicates a calculated result. Calculations use results from other analyses performed under accredited methods.

Fairway Laboratories, Inc.

Fairway Labs in Altoona, PA is a NELAP (National Environmental Laboratory Accreditation Program) accredited lab, and as such, certifies that all applicable test results meet the requirements of NELAP, unless otherwise stated on the analytical report.



NELAP: PA 07-062, VA 460212 State Certifications: MD 275, WV 364



Project: FECAL

400 East Offutt St.

Project Number: [none] Reported:
Cumberland MD, 21502

Cumberland MD, 21302 Collector: CLIENT 09/23/20 10:08

Project Manager: Rick Twigg Number of Containers: 1

Terms & Conditions

NEFCO

Services provided by Fairway Laboratories Inc. are limited to the terms and conditions stated herein, unless otherwise agreed to in a formal contract.

CHAIN OF CUSTODY Fairway Laboratories Inc. ("Fairway," "us" or "we") will initiate a chain-of-custody/request for analysis upon sample receipt unless the client includes a completed form with the received sample(s). Upon request, Fairway will provide chain-of-custody forms for use.

CONFIDENTIALITY Fairway maintains confidentiality in all of our client interactions. The client's consent will be required before releasing information about the services provided.

CONTRACTS All contracts are subject to review and approval by Fairway's legal council. Each contract must be signed by a corporate officer.

PAYMENT/BILLING Unless otherwise set forth in a signed contract or purchase order, terms of payment are "NET 30 Days." The time allowed for payment shall begin based on the invoice date. A 1.5% per month service charge may be added to all unpaid balances beyond the initial 30 days. In its sole discretion, Fairway reserves the right to request payment before services and hold sample results for payment of due balances. We will not bill a third party without prior agreement among all parties acknowledging and accepting responsibility for payment.

SAMPLE COLLECTION AND SUBMISSION Clients not requesting collection services from Fairway are responsible for proper collection, preservation, packaging, and delivery of samples to the laboratory in accordance with current law and commercial practice. Fairway shall have no responsibility for sample integrity prior to the receipt of the sample(s) and/or for any inaccuracy in test or analyses results as a result of the failure of the client or any third party to maintain the integrity of samples prior to delivery to Fairway. All samples submitted must be accompanied by a completed chain of custody or similar document clearly noting the requested analyses, dates/time sampled, client contact information, and trail of custody. Samples received at the laboratory after business hours are verified on the next business day. Discrepancies are documented on the Receiving

SUBCONTRACTING Some analyses may require subcontracting to another laboratory. Unless the client indicates otherwise, this decision will be made by Fairway. Subcontracted work will be identified on the final report in accordance with NELAC requirements.

RETURN OF RESULTS Fairway routinely provides faxed or verbal results within 10 working days of receipt of sample(s) and a hard copy of the data results is routinely received via US Postal Service within 15 working days. At the request of the client, Fairway may offer expedited return of sample results. Surcharges may apply to rush requests. All rush requests must be pre-approved by Fairway. We reserve the right to charge an archive retrieval fee for results older than one (1) year from the date of the request. All records will be maintained by Fairway for 5 years, after which, they will be destroyed.

SAMPLE DISPOSAL Fairway will maintain samples for four (4) weeks after the sample receipt date. Fairway will dispose of samples which are not and/or do not contain hazardous wastes (as such term is defined by applicable federal or state law), unless prior arrangements have been made for long-term storage. Fairway reserves the right to charge a disposal fee for the proper disposal of samples found or suspected to contain hazardous waste. A return shipping charge will be invoiced for samples returned to the client at their request.

HAZARD COMMUNICATION The client has the responsibility to inform the laboratory of any hazardous characteristics known or suspected about the sample, and to provide information on hazard prevention and personal protection as necessary or otherwise required by applicable law.

WARRANTY AND LIMITATION OF LIABILITY For services rendered, Fairway warrants that it will apply its best scientific knowledge and judgment and to employ its best level of effort consistent with professional standards within the environmental testing industry in performing the analytical services requested by its clients. We disclaim any other warranties, expressed or implied by law. Fairway does not accept any legal responsibility for the purposes for which client uses the test results.

LITIGATION All costs associated with compliance to any subpoena for documents, for testimony in a court of law, or for any other purpose relating to work performed by Fairway Laboratories, Inc. shall be invoiced by Fairway and paid by client. These costs shall include, but are not limited to, hourly charges for the persons involved, travel, mileage, and accommodations and for any and all other expenses associated with said litigation.

Fairway Laboratories, Inc.

Fairway Labs in Altoona, PA is a NELAP (National Environmental Laboratory Accreditation Program) accredited lab, and as such, certifies that all applicable test results meet the requirements of NELAP, unless otherwise stated on the analytical report.

REQUEST CHAIN OF CUSTODY/

Please print. See back of COC for instructions/terms and conditions.

2019 9th Ave.
P.O. Box 1925
Altoona, PA 16602
Phone: (814) 946-4306
Fax: (814) 946-8791

LABORATORIES

89 Kristi Rd Pennsdale, PA 17756

Phone: (570) 494-6380

Environmental Laboratory

of_

Client Name: NFFOO 114 KEDIONY				,			1	Ana	Analyses Requested	uested		
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By relinquishing my sample to Fairway Laboratories, Inc., I hereby agree to the terms and conditions printed on the reverse.

White Original - FLI File Canary - FLI Copy Pink - Customer Receipt Copy



1/4/2021

NEFCO Rick Twigg 400 E Offutt St. Cumberland, MD, 21502

Ref: Analytical Testing

Report Number: 20-353-0008

Project Description: Pellets Post Screener

Mc GROORY

Dear Rick Twigg:

Waypoint Analytical Virginia, Inc. received sample(s) on 12/18/2020 for the analyses presented in the following report.

The above referenced project has been analyzed per your instructions. The analyses were performed in accordance with the applicable analytical method. Sub-contracted testing is noted on the Sample Summary Table if applicable.

The analytical data has been validated using standard quality control measures performed as required by the analytical method. Quality Assurance, method validations, instrumentation maintenance and calibration for all parameters (NELAP and non-NELAP) were performed in accordance with guidelines established by the USEPA (including 40 CFR 136 Method Update Rule May 2012) and NELAC unless otherwise indicated.

Certain parameters (chlorine, pH, dissolved oxygen, sulfite...) are required to be analyzed within 15 minutes of sampling. Usually, but not always, any field parameter analyzed at the laboratory is outside of this holding time. Refer to sample analysis time for confirmation of holding time compliance.

The results are shown on the attached Report of Analysis(s). Results for solid matrices are reported on an asreceived basis unless otherwise indicated. This report shall not be reproduced except in full and relates only to the samples included in this report.

Please do not hesitate to contact me or client services if you have any questions or need additional information.

Sincerely,

Pauric McGroary Agronomist

Laboratory's liability in any claim relating to analyses performed shall be limited to, at laboratory's option, repeating the analysis in question at laboratory's expense, or the refund of the charges paid for performance of said analysis.



Sample Summary Table

Report Number: 20-353-0008

Client Project Description: Pellets Post Screener

Lab No	Client Sample ID	Matrix	Date Collected	Date Received	Method	Lab ID
74465	Pellets Post Screener	Solids	12/17/2020 15:30	12/18/2020		
74465	Pellets Post Screener	Solids	12/17/2020 15:30	12/18/2020	AOAC 2.4.14	WP MTN -
74465	Pellets Post Screener	Solids	12/17/2020 15:30	12/18/2020	4500NO3F-2011	WP MTN -
74465	Pellets Post Screener	Solids	12/17/2020 15:30	12/18/2020	SM-2540G	WP MTN -
74465	Pellets Post Screener	Solids	12/17/2020 15:30	12/18/2020	SM-4500-NH3C	WP MTN -
74465	Pellets Post Screener	Solids	12/17/2020 15:30	12/18/2020	SM-4500-NH3C-TKN	WP MTN -
74465	Pellets Post Screener	Solids	12/17/2020 15:30	12/18/2020	AOAC 2.5.07	WP MTN -
74465	Pellets Post Screener	Solids	12/17/2020 15:30	12/18/2020	6010D	WP MTN -
74465	Pellets Post Screener	Solids	12/17/2020 15:30	12/18/2020	SW-7471B	WP MTN -
74465	Pellets Post Screener	Solids	12/17/2020 15:30	12/18/2020	9045D	WP MTN -
74465	Pellets Post Screener	Solids	12/17/2020 15:30	12/18/2020	AOAC 993.31	WP MTN -



01130 Rick Twigg
NEFCO Project Pellets Posi

NEFCO Rick Twigg 400 E Offutt St. Pellets Post Screener

Information:

Cumberland , MD 21502

Report Date: 01/04/2021 Received: 12/18/2020

Submitted By: Rick Twigg
Report Number: 20-353-0008

lauric III GROOM

REPORT OF ANALYSIS

Pauric Mc Groary Ph.D., CPAg

Agronomist

Lab No : **74465**

Matrix: Solids

Sample ID : **Pellets Post Screener**

Sampled: 12/17/2020 15:30

Test	Results	Units	MQL	DF	Date / Time Analyzed	Ву	Analytical Method
Moisture	5.26	%	0.010	1	12/22/20 16:44	FMM	SM-2540G
Available Phosphorus as P2O5	4.76	% - dry	0.105		12/28/20 11:42		AOAC 993.31
Available Potassium (as K2O)	0.204	% - dry	0.105		12/29/20 15:07		AOAC 2.5.07
Water Insoluble Nitrogen	4.29	% - dry	0.021		01/03/21 13:00	JPJ	AOAC 2.4.14
Water Soluble Nitrogen	5490	mg/Kg - dry	264		12/31/20 14:00	51 5	CALCULATION
Test	Results	Units	MQL	DF	Date / Time Analyzed	Ву	Analytical Method
A		114					
Ammonia Nitrogen	1470	mg/Kg - dry	26.4		12/31/20 11:30	JPJ	SM-4500-NH3C
Nitrate+Nitrite-N	8.54	mg/Kg - dry	4.89		12/23/20 10:34	ZBD	4500NO3F-2011
Organic N	46900	mg/Kg - dry	264	1	12/31/20 11:30		CALCULATION
рН	6.4	s.u.		1	12/29/20 13:19	CxC	9045D
Total Solids	94.7	%	0.010	1	12/22/20 16:44	FMM	SM-2540G
Total Volatile Solids	63.7	%	0.010	1	12/22/20 16:44	FMM	SM-2540G
Total Kjeldahl Nitrogen	48300	mg/Kg - dry	264	1	12/31/20 14:00	JPJ S	SM-4500-NH3C-TKN
Phosphorus	19000	mg/Kg - dry	26.4	5	12/28/20 17:32	JADS	6010D
Aluminum	27700	mg/Kg - dry	26.4	5	12/28/20 17:32	JADS	6010D
Arsenic	5.01	mg/Kg - dry	0.527	1	12/28/20 17:16	JADS	6010D
Calcium	17000	mg/Kg - dry	264	5	12/28/20 17:32	JADS	6010D
Cadmium	0.583	mg/Kg - dry	0.106	1	12/24/20 04:03	JADS	6010D
Chromium	16.3	mg/Kg - dry	0.263	1	12/24/20 04:03	JADS	6010D

Qualifiers/ Definitions DF MQL Dilution Factor

Method Quantitation Limit

L Limit Exceeded



Rick Twigg

NEFCO Project Pellets Post Screener

Rick Twigg 400 E Offutt St. Cumberland , MD 21502

Information:

Report Date: 01/04/2021 Received: 12/18/2020

Paris Mi George

Submitted By: Rick Twigg

Report Number: 20-353-0008

REPORT OF ANALYSIS

Pauric Mc Groary Ph.D., CPAg

Agronomist

Lab No : **74465** Matrix: **Solids**

Sample ID : **Pellets Post Screener** Sampled: **12/17/2020 15:30**

Test	Results	Units	MQL	DF	Date / Time Analyzed	Ву	Analytical Method
-							
Copper	197	mg/Kg - dry	0.528	1	12/24/20 04:03	JADS	6010D
Iron	12000	mg/Kg - dry	52.8	5	12/28/20 17:32	JADS	6010D
Lead	29.1	mg/Kg - dry	0.316	1	12/24/20 04:03	JADS	6010D
Magnesium	2320	mg/Kg - dry	5.28	1	12/24/20 04:03	JADS	6010D
Manganese	887	mg/Kg - dry	2.64	5	12/28/20 17:32	JADS	6010D
Mercury	0.273	mg/Kg - dry	0.0160	1	12/29/20 11:02	DDB	SW-7471B
Molybdenum	4.32	mg/Kg - dry	0.263	1	12/24/20 04:03	JADS	6010D
Nickel	13.3	mg/Kg - dry	0.263	1	12/24/20 04:03	JADS	6010D
Potassium	1280	mg/Kg - dry	52.8	5	12/28/20 17:32	JADS	6010D
Selenium	2.94	mg/Kg - dry	0.527	1	12/29/20 17:41	TJS	6010D
Sodium	298	mg/Kg - dry	26.4	1	12/24/20 04:03	JADS	6010D
Zinc	506	mg/Kg - dry	1.32	1	12/24/20 04:03	JADS	6010D
Sulfur	7840	mg/Kg - dry	10.6	1	12/24/20 04:03	JADS	6010D

Qualifiers/ Definitions DF

Dilution Factor

MQL Method Quantitation Limit

L

Limit Exceeded



Signature: Brandi Watson

7621 Whitepine Road, Richmond, VA 23237 Main 804-743-9401 ° Fax 804-271-6446 www.waypointanalytical.com

Shipment Receipt Form

Customer Number: 01130 Customer Name: **NEFCO** 20-353-0008 Report Number:

Shipping Method

		JP.P	ig ivictifou		
○ Fed Ex	US Postal	◯ Lab		Other:	
● UPS	Client	Couri	er	Thermometer ID:	
Shipping containe	er/cooler uncompron	nised?	Yes	○ No	
Number of cooler	s/boxes received		1		
Custody seals into	act on shipping cont	ainer/cooler?	O Yes	○ No	Not Present
Custody seals into	act on sample bottle	s?	O Yes	○ No	Not Present
Chain of Custody	(COC) present?		Yes	○ No	
COC agrees with	sample label(s)?		Yes	○ No	
COC properly cor	npleted		Yes	○ No	
Samples in prope	er containers?		Yes	○ No	
Sample container	rs intact?		Yes	○ No	
Sufficient sample	volume for indicated	d test(s)?	Yes	○ No	
All samples receiv	ved within holding tir	ne?	Yes	○ No	
Cooler temperatu	re in compliance?		Yes	○ No	
	arrived at the laborat nsidered acceptable un.		Yes	○ No	
Water - Sample c	ontainers properly p	reserved	O Yes	○ No	● N/A
Water - VOA vials	free of headspace		O Yes	○ No	● N/A
Trip Blanks receiv	ved with VOAs		O Yes	○ No	● N/A
Soil VOA method	5035 – compliance	criteria met	O Yes	○ No	● N/A
High concentr	ation container (48 h	nr)	Lov	w concentration EnCo	ore samplers (48 hr)
High concentra	ation pre-weighed (r	nethanol -14 c	d) Lov	w conc pre-weighed v	vials (Sod Bis -14 d)
Special precautio	ns or instructions inc	cluded?	O Yes	● No	
Comments:					

Page 5 of 6

Date & Time: 12/18/2020 14:06:05

NEFCO 400 E o Cumbe	Offutt S	t MD 21502	Client Project Manager/Con Rick Twigg/Plant	Mar	nage	r NE	ling inform FCO D E Offu mberlan	tt St	21502	***************************************	T	NE Pel	FCO lets Post S			20 01 12	0-353-0008 130 -18-2020 :03:11	_
Pellet	ts Pos	st Screener	Project/Site Location (City/ 503 Metals/Cumb MD		nd,	B	Special D	Additional Detection Sults Need	I charges a Limit(s) led	pply	1		Client			DW – Drinking water P - Product M - Misc		
Project N	Number		301-722-23	80	_		ect Mana /igg@l		i bioslid	s.com	Purcha		Number			Site/Facility ID # 01130		
7621 W7 Richmon (804) 27	hitepine l ond, VA 2 71-6446	3237	Unless noted, all containers per Table II of 40 CFR Part 136.	Number of Containers	Matrix (Refer to Key)	(G)rab or (C)omposite	SL 1	SL 2	503 METALS	NITROGEN SERIES	Ha	/OLATILE SOLIDS	AVAILABLE K20 AS P206	OLUABLE K20 TKN AS %	ALIBLEINNOLUBLE NITROGEN AS %	A Cool < 10C N B Cool <= 6C C H2SO4 pH<2 D Nane Requir E NaOH pH>10 F HNO3 pH<2 G HCL pH<2 H H3PO4 pH<2	ed	
Date	Time	Sample	Identification	ž	_	9					alysis / Pr	reservation		0	<u> </u>	Cool ← 6C N	nts/Notes	
1217/20	5:30	Tellets for	t Screener	1	S	C	1	1	1	1	1.	1	1	1	1		GLASS	_
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Ice Y/N	Se	als	ab Comments	RI	ek	Twe	day					uls to rtv		obiosol	lds.com/	Phone 301-722-2380 (O) 301-876-1956 (C)
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FAIRWAY LABORATORIES

www.fairwaylaboratories.com

NELAP: PA 07-062, VA 460212 State Certifications: MD 275, WV 364

NEFCO Project: FECAL

400 East Offutt St.

Project Number: [none] Reported:

Cumberland MD, 21502 Collector: CLIENT 12/23/20 13:12

Project Manager: Rick Twigg Number of Containers: 1

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Sample Type	Date Sampled	Date Received
PELLET/POST SCREENER	0L18191-01	Solid	Grab	12/17/20 10:00	12/17/20 17:00

Client Sample ID: PELLET/POST SCREENER Date/Time Sampled: 12/17/20 10:00

Laboratory Sample ID: 0L18191-01 (Solid/Grab)

Date / Time Analytical *
Analyte Result MDL RL Units Analyzed Method Analyst Note

Microbiological Parameters by Standard Methods 9221E + EPA 625/R-92/013 App F

Fairway Laboratories, Inc.

Reviewed and Submitted by:

MAI

Michael P. Tyler Laboratory Director Fairway Labs in Altoona, PA is a NELAP (National Environmental Laboratory Accreditation Program) accredited lab, and as such, certifies that all applicable test results meet the requirements of NELAP, unless otherwise stated on the analytical report





NELAP: PA 07-062, VA 460212 State Certifications: MD 275, WV 364

NEFCO Project: **FECAL**

400 East Offutt St. Project Number: none Reported:

Cumberland MD, 21502 Collector: CLIENT 12/23/20 13:12

Project Manager: Rick Twigg Number of Containers:

Definitions:

If surrogate values are not within the indicated range, then the results are considered to be estimated.

Reporting limits are adjusted accordingly when samples are analyzed at a dilution due to the matrix.

MBAS, calculated as LAS, mol wt 348

If the solid sample weight for VOC analysis does not fall within the 3.5-6.5 gram range, the results are considered estimated values.

Unless otherwise noted, all results for solids are reported on a dry weight basis.

Samples collected by Fairway Laboratories' personnel are done so in accordance with Standard Operating Procedures established by Fairway

Laboratories.

The following analyses are to be performed immediately upon sampling: pH, sulfite, chlorine residual, dissolved oxygen, filtration for ortho

phosphorus, and ferrous iron. The date and time reported reflect the time the samples were analyzed at the laboratory; and should be

considered as analyzed outside the EPA holding time.

The following analytes are to be filtered immediately upon sampling: Hexavalent Chromium. Filtration through a 0.45 micron filter within 15

minutes of sampling is required for compliance with the Clean Water Act (CWA) for reporting of hexavalent chromium to prevent

interconversion of chromium species.

Analysis location indicator:

D: Indicates analysis performed by Fairway Laboratories, Inc., 110 McCracken Run Rd., DuBois, PA 15801. PA DEP Chapter 252

certification: PA 33-00258.

E: Indicates analysis performed by Fairway Laboratories, Inc., 1920 East 38th Street, Erie, PA 16510. NELAP certification: PA 25-05907.

G: Indicates analysis performed by Fairway Laboratories, Inc., 4727 Route 30 Ste 204, Greensburg, PA 15601. PA DEP Chapter 252

certification: PA 65-00392.

P: Indicates analysis performed by Fairway Laboratories, Inc., 89 Kristi Rd., Pennsdale, PA 17756. PA DEP Chapter 252 certification: PA

41-04684.

W: Indicates analysis performed by Fairway Laboratories, Inc., 1980 Golden Mile Rd., Wysox, PA 18854. NELAP certification: PA

Represents "less than" - indicates that the result was less than the RL, or the MDL if indicated for the parameter.

Method Detection Limit - is the lowest or minimum level that provides 99% confidence level that the analyte is detected. Any reported result MDL

values that are less than the RL are considered estimated values. If Radiological results are reported, the MDC - Minimum Detectable

Concentration is shown in the MDL column.

RI. Reporting Limit - is the lowest or minimum level at which the analyte can be quantified.

[CALC] Indicates a calculated result. Calculations use results from other analyses performed under accredited methods.

Fairway Laboratories, Inc.

Fairway Labs in Altoona, PA is a NELAP (National Environmental Laboratory Accreditation Program) accredited lab, and as such, certifies that all applicable test results meet the requirements of NELAP, unless otherwise stated on the analytical



NELAP: PA 07-062, VA 460212 State Certifications: MD 275, WV 364



12/23/20 13:12

NEFCO Project: FECAL

400 East Offutt St.

Project Number: [none] Reported:

Cumberland MD, 21502 Collector: CLIENT

Project Manager: Rick Twigg Number of Containers: 1

Terms & Conditions

Services provided by Fairway Laboratories Inc. are limited to the terms and conditions stated herein, unless otherwise agreed to in a formal contract.

CHAIN OF CUSTODY Fairway Laboratories Inc. ("Fairway," "us" or "we") will initiate a chain-of-custody/request for analysis upon sample receipt unless the client includes a completed form with the received sample(s). Upon request, Fairway will provide chain-of-custody forms for use.

CONFIDENTIALITY Fairway maintains confidentiality in all of our client interactions. The client's consent will be required before releasing information about the services provided.

CONTRACTS All contracts are subject to review and approval by Fairway's legal council. Each contract must be signed by a corporate officer.

PAYMENT/BILLING Unless otherwise set forth in a signed contract or purchase order, terms of payment are "NET 30 Days." The time allowed for payment shall begin based on the invoice date. A 1.5% per month service charge may be added to all unpaid balances beyond the initial 30 days. In its sole discretion, Fairway reserves the right to request payment before services and hold sample results for payment of due balances. We will not bill a third party without prior agreement among all parties acknowledging and accepting responsibility for payment.

SAMPLE COLLECTION AND SUBMISSION Clients not requesting collection services from Fairway are responsible for proper collection, preservation, packaging, and delivery of samples to the laboratory in accordance with current law and commercial practice. Fairway shall have no responsibility for sample integrity prior to the receipt of the sample(s) and/or for any inaccuracy in test or analyses results as a result of the failure of the client or any third party to maintain the integrity of samples prior to delivery to Fairway. All samples submitted must be accompanied by a completed chain of custody or similar document clearly noting the requested analyses, dates/time sampled, client contact information, and trail of custody. Samples received at the laboratory after business hours are verified on the next business day. Discrepancies are documented on the Receiving

SUBCONTRACTING Some analyses may require subcontracting to another laboratory. Unless the client indicates otherwise, this decision will be made by Fairway. Subcontracted work will be identified on the final report in accordance with NELAC requirements.

RETURN OF RESULTS Fairway routinely provides faxed or verbal results within 10 working days of receipt of sample(s) and a hard copy of the data results is routinely received via US Postal Service within 15 working days. At the request of the client, Fairway may offer expedited return of sample results. Surcharges may apply to rush requests. All rush requests must be pre-approved by Fairway. We reserve the right to charge an archive retrieval fee for results older than one (1) year from the date of the request. All records will be maintained by Fairway for 5 years, after which, they will be destroyed.

SAMPLE DISPOSAL Fairway will maintain samples for four (4) weeks after the sample receipt date. Fairway will dispose of samples which are not and/or do not contain hazardous wastes (as such term is defined by applicable federal or state law), unless prior arrangements have been made for long-term storage. Fairway reserves the right to charge a disposal fee for the proper disposal of samples found or suspected to contain hazardous waste. A return shipping charge will be invoiced for samples returned to the client at their request.

HAZARD COMMUNICATION The client has the responsibility to inform the laboratory of any hazardous characteristics known or suspected about the sample, and to provide information on hazard prevention and personal protection as necessary or otherwise required by applicable law.

WARRANTY AND LIMITATION OF LIABILITY For services rendered, Fairway warrants that it will apply its best scientific knowledge and judgment and to employ its best level of effort consistent with professional standards within the environmental testing industry in performing the analytical services requested by its clients. We disclaim any other warranties, expressed or implied by law. Fairway does not accept any legal responsibility for the purposes for which client uses the test results.

LITIGATION All costs associated with compliance to any subpoena for documents, for testimony in a court of law, or for any other purpose relating to work performed by Fairway Laboratories, Inc. shall be invoiced by Fairway and paid by client. These costs shall include, but are not limited to, hourly charges for the persons involved, travel, mileage, and accommodations and for any and all other expenses associated with said litigation.

Fairway Laboratories, Inc.

Fairway Labs in Altoona, PA is a NELAP (National Environmental Laboratory Accreditation Program) accredited lab, and as such, certifies that all applicable test results meet the requirements of NELAP, unless otherwise stated on the analytical report.

Please print. See back of COC for instructions/terms	REQUEST FOR ANALYSIS	CHAIN OF CUSTODY/	
F (814) 547 6761	Altoona, PA 16602	2019 9th Ave. P.O. Box 1925	
Environmeniai L	FAIRWAY LABORATORIES	•••	

	Andreas Degreefed	A mo		762 0I All I
Page of	Aboratory	Environmental Laboratory	Fax: (814) 946-8791	OC for instructions/terms
	Phone: (570) 494-6380	FAIRWAY LABORATORIES	Altoona, PA 16602	OR ANALYSIS
3	Pennsdale, PA 17756		P.O. Box 1925	F CUSTODY/
0) 18191	89 Kristi Rd	•	2019 9th Ave.	

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UPS Other			Yes 🗆		PWSID#	Sample Temp:	_ Sampl		Contact: 1912/2 16/280 Phone #: 301-722-2380
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I AR LISE ONLY	Analyses Requested		ble to	Reportable to			1	٦	Client Name: NE-10 Lumberland

COC#				Nu	nber and	1 Type o	Number and Type of BOTTLES	TES			Comments
	Poly Non- Pres.	Poly H2SO4	Poly HNO3	Amber H2SO4	Amber Non- Pres.	Poly NaOH	VOCS (Head space?)	Other	Properly Preserved	Bacti	Internal notification completed for deviations
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* DEVIATION PRESENT:	ENT:			CLIE	CLIENT CALLED: YES ()	CALLED:			CLIEN7 Proceed	r RESP with a	CLIENT RESPONSE: Proceed with analysis; qualify data (
Not at Proper Temperature Not at Proper Temperature	perature			By Whom:	hom:				Will Resample Provided Information	sample d Infor	mation (
Missing Information:	n:	\odot					Date:_		No Resp	onse; F	Response; Proceed and qualified (

* Comments:



12/30/2020

NEFCO Rick Twigg 400 E Offutt St. Cumberland, MD, 21502

Ref: Analytical Testing

Report Number: 20-353-0009

Project Description: Pellets Post Screener

Mc GROORY

Dear Rick Twigg:

Waypoint Analytical Virginia, Inc. received sample(s) on 12/18/2020 for the analyses presented in the following report.

The above referenced project has been analyzed per your instructions. The analyses were performed in accordance with the applicable analytical method. Sub-contracted testing is noted on the Sample Summary Table if applicable.

The analytical data has been validated using standard quality control measures performed as required by the analytical method. Quality Assurance, method validations, instrumentation maintenance and calibration for all parameters (NELAP and non-NELAP) were performed in accordance with guidelines established by the USEPA (including 40 CFR 136 Method Update Rule May 2012) and NELAC unless otherwise indicated.

Certain parameters (chlorine, pH, dissolved oxygen, sulfite...) are required to be analyzed within 15 minutes of sampling. Usually, but not always, any field parameter analyzed at the laboratory is outside of this holding time. Refer to sample analysis time for confirmation of holding time compliance.

The results are shown on the attached Report of Analysis(s). Results for solid matrices are reported on an asreceived basis unless otherwise indicated. This report shall not be reproduced except in full and relates only to the samples included in this report.

Please do not hesitate to contact me or client services if you have any questions or need additional information.

Sincerely,

Pauric McGroary
Agronomist

Laboratory's liability in any claim relating to analyses performed shall be limited to, at laboratory's option, repeating the analysis in question at laboratory's expense, or the refund of the charges paid for performance of said analysis.



Sample Summary Table

Report Number: 20-353-0009

Client Project Description: Pellets Post Screener

Lab No	Client Sample ID	Matrix	Date Collected	Date Received	Method	Lab ID
74466	Pellets Post Screener	Solids	12/17/2020 15:30	12/18/2020	SM-2540G	WP MTN -
74466	Pellets Post Screener	Solids	12/17/2020 15:30	12/18/2020	8081A	WP MTN -
74466	Pellets Post Screener	Solids	12/17/2020 15:30	12/18/2020	8260B	WP MTN -
74466	Pellets Post Screener	Solids	12/17/2020 15:30	12/18/2020	8270D	WP MTN -
74466	Pellets Post Screener	Solids	12/17/2020 15:30	12/18/2020	SM-2320 B	WP MTN -



01130 Rick Twigg
NEFCO Project Pellets Post Screener

NEFCO Rick Twigg 400 E Offutt St.

Lab No:

0 E Offutt St.

Cumberland , MD 21502

Information:

Report Date : 12/30/2020

Received: 12/18/2020

Youric Mi Groory

Pauric Mc Groary Ph.D., CPAg

Agronomist

Submitted By: Rick Twigg
Report Number: 20-353-0009

74466

Sample ID: Pellets Post Screener

ber : **20-353-0009**

REPORT OF ANALYSIS

Matrix: **Solids**Sampled: **12/17/2020 15:30**

Test	Results	Units	MQL	DF	Date / Time Analyzed	Ву	Analytical Method
Moisture	4.15	%	0.010	1	12/23/20 16:23	FMM	SM-2540G
Test	Results	Units	MQL	DF	Date / Time Analyzed	Ву	Analytical Method
Alkalinity (as CaCO3)	3670	mg/Kg - dry	104	1	12/22/20 17:15	CVB	CM 2220 D
Total Solids	3670 95.8	mg/kg - dry %	0.010		12/22/20 17:15 12/23/20 16:23		SM-2320 B SM-2540G
Total Solids	33.0	70	0.010	1	12/25/20 10.25	THIN	311-23-100
Analytical Method: 8081A	1	Prep Batch(es):	L528732 1	2/28/20 09:4	5		
Prep Method: 3546							
Test	Results	Units	MQL	DF	Date / Time Analyzed	Ву	Analytical Batch
Aldrin	<24.5	μg/Kg - dry	24.5	10	12/30/20 10:10	VIC	L529163
Chlordane	<245	μg/Kg - dry	245	10	12/30/20 10:10	VIC	L529163
4,4'-DDD	<24.5	μg/Kg - dry	24.5	10	12/30/20 10:10	VIC	L529163
4,4'-DDE	<24.5	μg/Kg - dry	24.5	10	12/30/20 10:10	VIC	L529163
4,4'-DDT	<24.5	μg/Kg - dry	24.5	10	12/30/20 10:10	VIC	L529163
	<24.5	μg/Kg - dry	24.5	10	12/30/20 10:10	VIC	L529163
Dieldrin	\24.5			10	12/20/20 10:10		1 520162
Dieldrin gamma-BHC	<24.5	μg/Kg - dry	24.5	10	12/30/20 10:10	VIC	L529163

Qualifiers/ Definitions

DF

Outside QC Limit
Dilution Factor

B Analyte detected in blank MQL Method Quantitation Limit



Cumberland , MD 21502

Submitted By: Rick Twigg

7621 Whitepine Road, Richmond, VA 23237 Main 804-743-9401 ° Fax 804-271-6446 www.waypointanalytical.com

01130 Rick Twigg

NEFCO Project Pellets Post Screener

 Rick Twigg
 Report Date : 12/30/2020

 400 E Offutt St.
 Information :
 Received : 12/18/2020

Pavic Mc Geory

Report Number: 20-353-0009

REPORT OF ANALYSIS

Pauric Mc Groary Ph.D., CPAg
Agronomist

Lab No : 74466 Matrix: Solids

Sample ID : **Pellets Post Screener** Sampled: **12/17/2020 15:30**

Sample 1D : Pellets P	ost Screener						Sampleu:	12/1/	2020 15:30
Analytical Method: Prep Method:	8081A 3546		Prep Batch(es):	L528732	12/28/20	09:4	5		
Test		Results	Units	MQL		DF	Date / Time Analyzed	Ву	Analytical Batch
Toxaphene		<2450	μg/Kg - dry	2450		10	12/30/20 10:10	VIC	L529163
_	cachlorobiphenyl rachloro-m-xylene		54.0 66.0		37-165% 18-158%		10 12/30/20 10:: 10 12/30/20 10::		
Analytical Method: Prep Method:	8260B 5030A		Prep Batch(es):	L529014	12/29/20	07:5	2		
Test		Results	Units	MQL		DF	Date / Time Analyzed	Ву	Analytical Batch
Trichloroethene		<10.1	μg/Kg - dry	10.1		1	12/29/20 11:20	ELM	L529021
Surrogate: 4-B	romofluorobenzene		98.8	Limits: 6	50-130%		1 12/29/20 11:2	20 ELM	L529021
Surrogate: 1,2	-Dichloroethane - d4		152 *	Limits: 6	50-132%		1 12/29/20 11:2	20 ELM	L529021
Surrogate: Tol	uene-d8		100	Limits: 7	70-130%		1 12/29/20 11:2	20 ELM	L529021
Analytical Method: Prep Method:	8270D 3546		Prep Batch(es):	L528991	12/28/20	08:48	8		
Test		Results	Units	MQL		DF	Date / Time Analyzed	Ву	Analytical Batch
Benzo(a)pyrene		<4770	μg/Kg - dry	4770		5	12/28/20 22:40	ССВ	L529005
Hexachlorobenzene		<12100	μg/Kg - dry	12100		5	12/28/20 22:40	CCB	L529005
Hexachlorobutadiene		<12100	μg/Kg - dry	12100		5	12/28/20 22:40	CCB	L529005

Qualifiers/
Definitions*Outside QC LimitBAnalyte detected in blankDefinitionsDFDilution FactorMQLMethod Quantitation Limit



01130 Rick Twigg

Pellets Post Screener **NEFCO** Project

Rick Twigg Report Date: 12/30/2020 Information: Received: 12/18/2020 400 E Offutt St.

Cumberland , MD 21502

Pauric Mc Groary Ph.D., CPAg **REPORT OF ANALYSIS** Report Number: 20-353-0009 Agronomist

Matrix: Solids

Sample ID: Pellets Post Screener Sampled: 12/17/2020 15:30

Analytical Method: 8270D Prep Batch(es): **L528991** 12/28/20 08:48

Submitted By: Rick Twigg

74466

Lab No:

Prep Method: 3546 Test	Results	Units	MQL	DF	Date / Time Analyzed	Ву	Analytical Batch	_
N-Nitrosodimethylamine	<12100	μg/Kg - dry	12100	5	12/28/20 22:40	ССВ	L529005	
Surrogate: 2-Fluorobiphenyl	4	46.0	Limits: 20-120%		5 12/28/20 22:	40 CCB	L529005	
Surrogate: Nitrobenzene-d5	•	44.6	Limits: 22-120%		5 12/28/20 22:	40 CCB	L529005	
Surrogate: 4-Terphenyl-d14		102	Limits: 22-120%		5 12/28/20 22:	40 CCB	L529005	



Client: NEFCO CASE NARRATIVE

Project: Pellets Post Screener Lab Report Number: 20-353-0009

Date: 12/30/2020

High Temp/Pressure Extraction for OC Pests Method 3546

Sample 74466 (Pellets Post Screener) QC Batch No: L528732/L528732

The weight/volume extracted was reduced during the extraction procedure due to the nature of the sample.

Reporting limits are factored for the sample size reduction.

High Temp/Pressure Extraction for 8270 Method 3546

QC Batch No: L528991/L528991

The weight/volume extracted was reduced during the extraction procedure due to the nature of the sample. Reporting limits are factored for the sample size reduction.

Volatile Organic Compounds - GC/MS Method 8260B

Analyte: 1,2-Dichloroethane-d4 QC Batch No: L529021/L529014

Surrogate(s) exhibited a high bias in this project sample where no target analytes were detected. The high recovery(s) had no impact on the data. Batch QC samples (method blank and laboratory control samples) all showed surrogates within QC limits.



Shipment Receipt Form

Customer Number: 01130
Customer Name: NEFCO
Report Number: 20-353-0009

Shipping Method

○ Fed Ex	US Postal	○ Lab		Other:	
● UPS	Client	O Cour	ier	Thermometer ID:	
Shipping contain	ner/cooler uncomprom	ised?	Yes	○ No	
Number of coole	ers/boxes received		1		
Custody seals in	ntact on shipping conta	iner/cooler?	O Yes	○ No	Not Present
Custody seals in	ntact on sample bottles	;?	O Yes	○ No	Not Present
Chain of Custod	ly (COC) present?		Yes	○ No	
COC agrees wit	h sample label(s)?		Yes	○ No	
COC properly co	ompleted		Yes	○ No	
Samples in prop	er containers?		Yes	○ No	
Sample containe	ers intact?		Yes	○ No	
Sufficient sampl	e volume for indicated	test(s)?	Yes	○ No	
All samples rece	eived within holding tim	ne?	Yes	○ No	
Cooler temperat	ture in compliance?		Yes	○ No	
	arrived at the laborate considered acceptable gun.		Yes	○ No	
Water - Sample	containers properly pr	eserved	O Yes	○ No	● N/A
Water - VOA via	lls free of headspace		O Yes	○ No	● N/A
Trip Blanks rece	eived with VOAs		O Yes	○ No	● N/A
Soil VOA metho	d 5035 – compliance d	criteria met	O Yes	○ No	● N/A
High concen	tration container (48 h	r)	Low	concentration EnC	ore samplers (48 hr)
High concent	tration pre-weighed (m	ethanol -14	d) Lov	conc pre-weighed	vials (Sod Bis -14 d)
Special precauti	ons or instructions inc	luded?	○ Yes	● No	
Comments:					

Signature: Brandi Watson Date & Time: 12/18/2020 14:12:15

Client Na	me/Addr	ess	I	Client Project Manager/Conta	ict		0.00000000	g Informa	tion								20-353-00	009	
NEFCO 400 E C Cumber	Offutt St	D 21502		Rick Twigg/Plant M	lana	ager		E Offutt	St , MD 21	502			NEFC Pellet	CO s Post Scr	reener		20-353-00 01130 12-18-202 14:08:34	0	
Project D	escription	n		Project/Site Location (City/Sta	ate)					harges ap	ply	Met	_		12010-00000				Company of the Compan
Pellet	s Post	Screene	er	Cumberland, MD					tection Li Its Neede			Fed Cou	urier	UPS [Client D	USPS rop Off		DW – Drinking Water S – S P - Product M - Misc	ioil /Solid	o – Oil
Project N	lumber			Project Manager Phone #			Proje	ct Manag	er Email			Purchas	e Order N	lumber			Site/Facility ID #		
				301-722-238	30		rtwi	gg@n	efcob	ioslids	.com						01130		
Richmo	YPC ANA Thitepine R and, VA 23 71-6446		9	Unless noted, all containers per Table II of 40 CFR Part 136.	Number of Containers	Matrix (Refer to Key)	(G)rab or (C)omposite	See attached									A Cool < 10C Na252 B Cool <= 6C C H2SO4 pH<2 D None Required E Na0H pH>10 F HNO3 pH<2 G HCL pH<2 H H3PO4 pH<2 I Cool <= 6C NA252		Only)
Date	Time		Sample	Identification	z	2	_=			Red	uired An	alysis / Pr	eservativ	e			Comments	Notes	
12-17-20	15:30	Pellets			1	S	G	1									16 OZ/G	LASS	
		-	744he	6															
							П												
										1									
		For Labo	oratory Use	Only	Sam	pled by	(Name	- Print)				Client R	temarks/0	Comment	s				
Ice		ustody Seals		Lab Comments	Ri	ck	Tw	igg				Email re	esults to r	twigg@ne	efcobios	olids.co	m/Phone 301-722-2380 (C) 301-87	6-1956 (C)
Y/N		Y/N			Relin	ngyishe (P)	d by: (8	IGNATUR				Date 121720	Time 17:30	Receiv	ed by: (SIGNATU	JRE)	Date	Time
Blan	k/Cooler 1	Гетр			Relin	nquishe	d by: (S	ALL THE	95	8		Date		Receiv	by:	SIGNATI	JRE)	Date	Time
					Relin	nquishe	ed by: (S	IGNATUR	RE)			Date		Receiv	ved by: (SIGNATU	JRE)	Date	Time
						_						-	_			- /1	7 _		

Temp below 628

VA Permit Constituents for Analysis

Alkalinity as CaCO3	mg/kg
এ। Aldrin/dieldrin (total) <u>✓</u>	mg/kg
91251 Benzo (a) pyrene	mg/kg
CII3I Chlordane	mg/kg
QI3I DDT/DDE/DDD (total)	mg/kg
Q131 DDT/DDE/DDD (total) N-Nitrosodi Ma	mg/kg
Q121	mg/kg
۵۱25 Hexachlorobenzene 🗸	mg/kg
41251 Hexachlorobutadiene	mg/kg
91311 Lindane Janua - BHC	mg/kg
الاعال Toxaphene	mg/kg
C Trichloroethylene	mg/kg

Values to be reported on a dry weight basis

Note: DDT=--Bis (p-chlorophenyl)—1, 1,1—Trichloroethane; DDE + 1,1— Bis (p-chlorophenyl)—2,2—Dichlorothylene; DDD= 1,1—Bis pchloorphenyl)—2,2—Dichloroethane





NELAP: PA 07-062, VA 460212 State Certifications: MD 275, WV 364



NEFCO Project: **GENERAL**

400 East Offutt St. Project Number: Reported: [none]

Cumberland MD, 21502 Collector: **CLIENT** 03/09/20 17:12

Project Manager: Rick Twigg Number of Containers:

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Sample Type	Date Sampled	Date Received
SOLIDS/POST SCREENER	0B21122-01	Solid	Grab	02/20/20 10:00	02/20/20 17:00

Fairway Laboratories, Inc.

Reviewed and Submitted by:

MAT

The results in this report apply to the samples analyzed in accordance with the chain of

 $custody\ document.\ This\ analytical\ report\ must\ be\ reproduced\ in\ its\ entirety.$

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NEFCO Project: GENERAL

400 East Offutt St.

Cumberland MD, 21502 Collector: CLIENT 03/09/20 17:12

Project Number:

[none]

Project Manager: Rick Twigg Number of Containers: 1

Client Sample ID: SOLIDS/POST SCREENER Date/Time Sampled: 02/20/20 10:00

Laboratory Sample ID: 0B21122-01 (Solid/Grab)

Analyte	Result	MDL	RL	Units	Date / Time Analyzed	Analytical Method	* Analyst	Note
Analyses to be performed immed	liately upon sam	pling. See De	finition i	ndicated by:	#			
# pH @ 24.8°C	6.85			pH Units	02/26/20 13:50	SW846-9045 D	elb	
Conventional Chemistry Parame	ters by SM/EPA	Methods						
% Solids	90.4		0.100	%	02/25/20 17:00	SM 2540 G-11	EEV	
Physical Parameters by APHA/A	STM/EPA Meth	ods						
Ignitability - Burn Rate	< 0.100		0.100	mm/sec	02/22/20 13:45	EPA 1030	mmd	G6
Free Liquid	< 0.100		0.100	ml/l/5 min	02/25/20 16:00	EPA 9095B	vdg	
Polychlorinated Biphenyls by EP	A Extraction M	ethod 3541						
PCB-1016	< 0.011		0.011	mg/kg dry	02/26/20 11:31	EPA 8082A	cdb	
PCB-1221	< 0.011		0.011	mg/kg dry	02/26/20 11:31	EPA 8082A	cdb	
PCB-1232	< 0.011		0.011	mg/kg dry	02/26/20 11:31	EPA 8082A	cdb	
PCB-1242	< 0.011		0.011	mg/kg dry	02/26/20 11:31	EPA 8082A	cdb	
PCB-1248	< 0.011		0.011	mg/kg dry	02/26/20 11:31	EPA 8082A	cdb	
PCB-1254	< 0.011		0.011	mg/kg dry	02/26/20 11:31	EPA 8082A	cdb	
PCB-1260	< 0.011		0.011	mg/kg dry	02/26/20 11:31	EPA 8082A	cdb	
Surrogate: Tetrachloro-meta-xylene		48.8 %	26.	5-135	02/26/20 11:31	EPA 8082A	cdb	
Surrogate: Decachlorobiphenyl		95.9 %	32.	8-122	02/26/20 11:31	EPA 8082A	cdb	

Reactive Cyanide by Preparation Method EPA 7.3.3.2

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03/09/20 17:12

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NEFCO Project: GENERAL

400 East Offutt St.

Project Number: [none] Reported:

Cumberland MD, 21502 Collector: CLIENT

Project Manager: Rick Twigg Number of Containers: 1

Client Sample ID: SOLIDS/POST SCREENER Date/Time Sampled: 02/20/20 10:00

Laboratory Sample ID: 0B21122-01 (Solid/Grab)

Analyte	Result	MDL	RL	Units	Date / Time Analyzed	Analytical Method	* Analyst	Note
Reactive Cyanide by Prepar	ration Method EPA 7	3.3.2						
Reactive Cyanide	< 0.982		0.982	mg/kg dry	03/04/20 08:50	EPA 9014	cjw	
Reactive Sulfide by Prepara	ation Method EPA 7.3.	4.2						
Reactive Sulfide	<21.5		21.5	mg/kg dry	03/02/20 14:57	EPA 9034	cjw	
TCLP Extraction by EPA 1	311							
# pH @ 21°C	5.94			pH Units	02/25/20 10:11	EPA 1311	vdg	
TCLP Herbicides by EPA M	Tethods 1311/8151A							
2,4-D	<1.00		1.00	ug/l	03/04/20 17:02	EPA 8151A	cdb	D
2,4,5-TP (Silvex)	<1.00		1.00	ug/l	03/04/20 17:02	EPA 8151A	cdb	
Surrogate: 2,4-DCAA		32.3 %	<i>57</i> .	3-151	03/04/20 17:02	EPA 8151A	cdb	P
TCLP Metals extracted by	EPA 1311							
Silver	< 0.0200		0.0200	mg/l	02/27/20 10:12	EPA	seg	
Arsenic	< 0.0400		0.0400	mg/l	02/27/20 10:12	6010B/2.0 EPA	seg	
Barium	<0.500		0.500	mg/l	02/27/20 10:10	6010B/2.0 EPA 6010B/2.0	seg	
Cadmium	< 0.0200		0.0200	mg/l	02/27/20 10:12	EPA 6010B/2.0	seg	
Chromium	< 0.0250		0.0250	mg/l	02/27/20 10:12	EPA 6010B/2.0	seg	

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Cumberland MD, 21502 Collector: CLIENT 03/09/20 17:12

Project Number:

[none]

Project Manager: Rick Twigg Number of Containers: 1

Client Sample ID: SOLIDS/POST SCREENER Date/Time Sampled: 02/20/20 10:00

Laboratory Sample ID: 0B21122-01 (Solid/Grab)

Analyte	Result	MDL	RL	Units	Date / Time Analyzed	Analytical Method	* Analyst	Note
TCLP Metals extracted by EPA	1311							
Mercury	< 0.00200		0.00200	mg/l	02/27/20 22:25	EPA 7471B	cam	
Lead	<0.0400		0.0400	mg/l	02/27/20 10:12	EPA 6010B/2.0	seg	
Selenium	<0.100		0.100	mg/l	02/27/20 10:12	EPA 6010B/2.0	seg	
TCLP Pesticides by EPA Method	l 1311/Extraction	Method 35	10C/					
gamma-BHC (Lindane)	< 0.100		0.100	ug/l	02/27/20 19:02	EPA 8081B	cdb	D
Chlordane (tech)	< 5.00		5.00	ug/l	02/27/20 19:02	EPA 8081B	cdb	
Endrin	< 0.100		0.100	ug/l	02/27/20 19:02	EPA 8081B	cdb	D
Heptachlor	< 0.100		0.100	ug/l	02/27/20 19:02	EPA 8081B	cdb	D
Heptachlor epoxide	< 0.100		0.100	ug/l	02/27/20 19:02	EPA 8081B	cdb	D
Methoxychlor	< 0.100		0.100	ug/l	02/27/20 19:02	EPA 8081B	cdb	D, F
Toxaphene	< 5.00		5.00	ug/l	02/27/20 19:02	EPA 8081B	cdb	D
Surrogate: Tetrachloro-meta-xylene		79.2 %	24-	119	02/27/20 19:02	EPA 8081B	cdb	
Surrogate: Decachlorobiphenyl		75.9 %	13.2	-124	02/27/20 19:02	EPA 8081B	cdb	
TCLP Semivolatile Organic Con	pounds by EPA	1311/Extrac	tion Method	1 3510C				
Pyridine	<100		100	ug/l	02/26/20 13:14	EPA 8270D	cdb	
1,4-Dichlorobenzene	< 50.0		50.0	ug/l	02/26/20 13:14	EPA 8270D	cdb	
2,4-Dinitrotoluene	< 50.0		50.0	ug/l	02/26/20 13:14	EPA 8270D	cdb	

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Reported:

NEFCO Project: GENERAL

400 East Offutt St.

Cumberland MD, 21502 Collector: CLIENT 03/09/20 17:12

Project Number:

[none]

Project Manager: Rick Twigg Number of Containers: 1

Client Sample ID: SOLIDS/POST SCREENER Date/Time Sampled: 02/20/20 10:00

Laboratory Sample ID: 0B21122-01 (Solid/Grab)

Analyte	Result	MDL	RL	Units	Date / Time Analyzed	Analytical Method	* Analyst	Note
ΓCLP Semivolatile Organic Com	pounds by EPA	1311/Extraction	on Method	13510C				
3 & 4-Methylphenol	940		50.0	ug/l	02/26/20 13:14	EPA 8270D	cdb	
Hexachlorobenzene	< 50.0		50.0	ug/l	02/26/20 13:14	EPA 8270D	cdb	
Hexachlorobutadiene	< 50.0		50.0	ug/l	02/26/20 13:14	EPA 8270D	cdb	
Hexachloroethane	< 50.0		50.0	ug/l	02/26/20 13:14	EPA 8270D	cdb	
2-Methylphenol	< 50.0		50.0	ug/l	02/26/20 13:14	EPA 8270D	cdb	
Nitrobenzene	< 50.0		50.0	ug/l	02/26/20 13:14	EPA 8270D	cdb	
Pentachlorophenol	<250		250	ug/l	02/26/20 13:14	EPA 8270D	cdb	
2,4,5-Trichlorophenol	< 50.0		50.0	ug/l	02/26/20 13:14	EPA 8270D	cdb	
2,4,6-Trichlorophenol	< 50.0		50.0	ug/l	02/26/20 13:14	EPA 8270D	cdb	
Surrogate: 2-Fluorophenol		60.8 %	20.6-	73.2	02/26/20 13:14	EPA 8270D	cdb	
Surrogate: Phenol-d6		42.5 %	15.4-	49.6	02/26/20 13:14	EPA 8270D	cdb	
Surrogate: Nitrobenzene-d5		85.2 %	31.9	-118	02/26/20 13:14	EPA 8270D	cdb	
Surrogate: 2-Fluorobiphenyl		81.3 %	31.8	136	02/26/20 13:14	EPA 8270D	cdb	
Surrogate: 2,4,6-Tribromophenol		98.7 %	49.3	148	02/26/20 13:14	EPA 8270D	cdb	
Surrogate: Terphenyl-d14		93.4 %	10	135	02/26/20 13:14	EPA 8270D	cdb	
ΓCLP Volatile Organic Compoui	nds by EPA Met	hod 1311/8260	В					
Benzene	< 50.0		50.0	ug/l	02/26/20 17:45	EPA 8260B	JMG	
2-Butanone	< 500		500	ug/l	02/26/20 17:45	EPA 8260B	JMG	
Carbon tetrachloride	< 50.0		50.0	ug/l	02/26/20 17:45	EPA 8260B	JMG	

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NEFCO Project: GENERAL

400 East Offutt St.

Project Number: [none] Reported:
Cumberland MD, 21502

Collector: CLIENT 03/09/20 17:12

Project Manager: Rick Twigg Number of Containers: 1

Client Sample ID: SOLIDS/POST SCREENER Date/Time Sampled: 02/20/20 10:00

Laboratory Sample ID: 0B21122-01 (Solid/Grab)

Analyte	Result	MDL	RL	Units	Date / Time Analyzed	Analytical Method	* Analyst	Note
TCLP Volatile Organic Compoun	nds by EPA Met	hod 1311/8260F	3					
Chlorobenzene	< 50.0		50.0	ug/l	02/26/20 17:45	EPA 8260B	JMG	
Chloroform	< 50.0		50.0	ug/l	02/26/20 17:45	EPA 8260B	JMG	
1,2-Dichloroethane	< 50.0		50.0	ug/l	02/26/20 17:45	EPA 8260B	JMG	
1,1-Dichloroethene	< 50.0		50.0	ug/l	02/26/20 17:45	EPA 8260B	JMG	
Tetrachloroethene	< 50.0		50.0	ug/l	02/26/20 17:45	EPA 8260B	JMG	
Trichloroethene	< 50.0		50.0	ug/l	02/26/20 17:45	EPA 8260B	JMG	
Vinyl chloride	<50.0		50.0	ug/l	02/26/20 17:45	EPA 8260B	JMG	
Surrogate: 4-Bromofluorobenzene		104 %	70-	130	02/26/20 17:45	EPA 8260B	JMG	
Surrogate: 1,2-Dichloroethane-d4		98.2 %	70-	130	02/26/20 17:45	EPA 8260B	JMG	
Surrogate: Fluorobenzene		100 %	70-	130	02/26/20 17:45	EPA 8260B	JMG	



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NEFCO Project: **GENERAL**

400 East Offutt St.

Cumberland MD, 21502 Collector: **CLIENT** 03/09/20 17:12

Project Number:

[none]

Rick Twigg Project Manager: Number of Containers:

Notes

D	A Continuing Calibration Verification (CCV) analyzed with the analytical batch recovered above the acceptance range for the noted analyte.
F	The Laboratory Control Sample (LCS) analyzed with this preparation batch recovered above the acceptance range for the noted analyte.
G6	According to EPA Method 1030/40 CFR 261.21, this sample did not have a burning rate greater than 2.2mm/second and is therefore not considered to have a positive result for ignitability.
P	The noted surrogate value was below the acceptance range.



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NEFCO Project: **GENERAL**

400 East Offutt St. Project Number: none Reported:

Cumberland MD, 21502 Collector: CLIENT 03/09/20 17:12

Project Manager: Rick Twigg Number of Containers:

Definitions:

If surrogate values are not within the indicated range, then the results are considered to be estimated.

Reporting limits are adjusted accordingly when samples are analyzed at a dilution due to the matrix.

MBAS, calculated as LAS, mol wt 348

If the solid sample weight for VOC analysis does not fall within the 3.5-6.5 gram range, the results are considered estimated values.

Unless otherwise noted, all results for solids are reported on a dry weight basis.

Samples collected by Fairway Laboratories' personnel are done so in accordance with Standard Operating Procedures established by Fairway Laboratories.

The following analyses are to be performed immediately upon sampling: pH, sulfite, chlorine residual, dissolved oxygen, filtration for ortho phosphorus, and ferrous iron. The date and time reported reflect the time the samples were analyzed at the laboratory; and should be considered as analyzed outside the EPA holding time.

The following analytes are to be filtered immediately upon sampling: Hexavalent Chromium. Filtration through a 0.45 micron filter within 15 minutes of sampling is required for compliance with the Clean Water Act (CWA) for reporting of hexavalent chromium to prevent interconversion of chromium species.

Analysis location indicator:

D: Indicates analysis performed by Fairway Laboratories, Inc., 110 McCracken Run Rd., DuBois, PA 15801. PA DEP Chapter 252 certification: PA 33-00258.

G: Indicates analysis performed by Fairway Laboratories, Inc., 4727 Route 30 Ste 204, Greensburg, PA 15601. PA DEP Chapter 252 certification: PA 65-00392.

P: Indicates analysis performed by Fairway Laboratories, Inc., 89 Kristi Rd., Pennsdale, PA 17756. PA DEP Chapter 252 certification: PA 41-04684.

W: Indicates analysis performed by Fairway Laboratories, Inc., 1950 Golden Mile Rd., Wysox, PA 18854. NELAP certification: PA 08-05622.

Represents "less than" - indicates that the result was less than the RL, or the MDL if indicated for the parameter.

Method Detection Limit - is the lowest or minimum level that provides 99% confidence level that the analyte is detected. Any reported result values that are less than the RL are considered estimated values. If Radiological results are reported, the MDC -

Minimum Detectable Concentration is shown in the MDL column.

RLReporting Limit - is the lowest or minimum level at which the analyte can be quantified.

[CALC] Indicates a calculated result. Calculations use results from other analyses performed under accredited methods.

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MDL

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NEFCO Project: **GENERAL**

400 East Offutt St. Project Number:

Cumberland MD, 21502 Collector: 03/09/20 17:12 CLIENT

Project Manager: Rick Twigg Number of Containers:

Terms & Conditions

Services provided by Fairway Laboratories Inc. are limited to the terms and conditions stated herein, unless otherwise agreed to in a formal contract.

CHAIN OF CUSTODY Fairway Laboratories Inc. ("Fairway," "us" or "we") will initiate a chain-of-custody/request for analysis upon sample receipt unless the client includes a completed form with the received sample(s). Upon request, Fairway will provide chain-of-custody forms for use.

CONFIDENTIALITY Fairway maintains confidentiality in all of our client interactions. The client's consent will be required before releasing information about the services

CONTRACTS All contracts are subject to review and approval by Fairway's legal council. Each contract must be signed by a corporate officer.

PAYMENT/BILLING Unless otherwise set forth in a signed contract or purchase order, terms of payment are "NET 30 Days." The time allowed for payment shall begin based on the invoice date. A 1.5% per month service charge may be added to all unpaid balances beyond the initial 30 days. In its sole discretion, Fairway reserves the right to request payment before services and hold sample results for payment of due balances. We will not bill a third party without prior agreement among all parties acknowledging and accepting responsibility for payment.

SAMPLE COLLECTION AND SUBMISSION Clients not requesting collection services from Fairway are responsible for proper collection, preservation, packaging, and delivery of samples to the laboratory in accordance with current law and commercial practice. Fairway shall have no responsibility for sample integrity prior to the receipt of the sample(s) and/or for any inaccuracy in test or analyses results as a result of the failure of the client or any third party to maintain the integrity of samples prior to delivery to Fairway. All samples submitted must be accompanied by a completed chain of custody or similar document clearly noting the requested analyses, dates/time sampled, client contact information, and trail of custody. Samples received at the laboratory after business hours are verified on the next business day. Discrepancies are documented on the Receiving Document

SUBCONTRACTING Some analyses may require subcontracting to another laboratory. Unless the client indicates otherwise, this decision will be made by Fairway. Subcontracted work will be identified on the final report in accordance with NELAC requirements.

RETURN OF RESULTS Fairway routinely provides faxed or verbal results within 10 working days of receipt of sample(s) and a hard copy of the data results is routinely received via US Postal Service within 15 working days. At the request of the client, Fairway may offer expedited return of sample results. Surcharges may apply to rush requests. requests must be pre-approved by Fairway. We reserve the right to charge an archive retrieval fee for results older than one (1) year from the date of the request. All records will be maintained by Fairway for 5 years, after which, they will be destroyed.

SAMPLE DISPOSAL Fairway will maintain samples for four (4) weeks after the sample receipt date. Fairway will dispose of samples which are not and/or do not contain hazardous wastes (as such term is defined by applicable federal or state law), unless prior arrangements have been made for long-term storage. Fairway reserves the right to charge a disposal fee for the proper disposal of samples found or suspected to contain hazardous waste. A return shipping charge will be invoiced for samples returned to the client at their request.

HAZARD COMMUNICATION The client has the responsibility to inform the laboratory of any hazardous characteristics known or suspected about the sample, and to provide information on hazard prevention and personal protection as necessary or otherwise required by applicable law.

WARRANTY AND LIMITATION OF LIABILITY For services rendered, Fairway warrants that it will apply its best scientific knowledge and judgment and to employ its best level of effort consistent with professional standards within the environmental testing industry in performing the analytical services requested by its clients. We disclaim any other warranties, expressed or implied by law. Fairway does not accept any legal responsibility for the purposes for which client uses the test results.

LITIGATION All costs associated with compliance to any subpoena for documents, for testimony in a court of law, or for any other purpose relating to work performed by Fairway Laboratories, Inc. shall be invoiced by Fairway and paid by client. These costs shall include, but are not limited to, hourly charges for the persons involved, travel, mileage, and accommodations and for any and all other expenses associated with said litigation.

Fairway Laboratories, Inc.

Fairway Labs in Altoona, PA is a NELAP (National Environmental Laboratory Accreditation Program) accredited lab, and as such, certifies that all applicable test results meet the requirements of NELAP, unless otherwise stated on the analytical

none

Page 10 of 12

CHAIN OF CUSTODY/ REQUEST FOR ANALYSIS

Please print. See back of COC for instructions/terms and conditions.

2019 9th Ave. P.O. Box 1925 Altoona, PA 16602

Phone: (814) 946-4306

Fax: (814) 946-8791

FAIRWAY LABORATORIES Environmental Laboratory

89 Kristi Rd Pennsdale, PA 17756

Phone: (570) 494-6380

Client Name: NEFCO Cumberland	. Reportable					:o		Analyses Requested						LAB USE ONLY	
Address: 400 EOFFut St Cumpepland, MD 21502	Received on ice?	Y N	ļ	PADEP?					! 						
Contact: RICK TWAS	Sample Temp:	Yes □										FedEx USPS UPS Other			
Phone #: 301-722-7380	Sample Temp	Sample Temp:			PWSID #		-[\					CID OHIO	
Fax #: 301-722-2381			L	3.5	.4	$\overline{}$	- P		 			ļ		Tracking #	
Project Name:	1	GRA	/B	M	atrix	4	30						1		
Quote/PO #:]	-or				\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	, Z		!			1			
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Rush TAT subject to pre-approval and surcharge B B CA B CA B CA B CA B CA CA	Start	Eilt	4	1		‡	Į Ņ		<u> </u>	1		1	! 		
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Sample Description/Location	Start Start Date Time	End Date	End Time		خ اِڏ	<u>5</u>								Bottle Type/Comments	
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SOP FLI0601-0	02 Attachment C	ì
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Revision 26

Date: May 22, 2019

Page of

- 3				(Chain (of Cus	tody Rec	eiving Doc	ument	\sim	
Receiver: A		_							age 2 of	-	#Z
Date/Time of this chec	k: <u>LUU</u>	0 13	59_	Clien	t: <u>W</u>	EFC	<u>۔ ۔ ۔ ۔ </u>		La	ıb#(0B21122
Received on ICE?	+ □* ;	Sample T	Temper	ature w	hen deli	ivered t	o the Lab	: <u>0.7</u> °C Ac	ceptable?	_	or In cool down process? * ** ** ** ** ** ** ** ** ** ** ** **
Custody Seals?	4	Intact?	? ——	1 AG	1		Mornin	g Temperatu	re Verificati	on <6°	C (if applicable):
COC/Labels on bottles	agree? <u>\</u>	+ □*	Cor	rect cont	ainers f	or all the	e analysis	requested?	+ □ * M	atrix:	5011d
COC#	1	1					of BOTTI				Comments
	Poly Non- Pres.	Poly H2SO4	Poly HNO3	Amber H2SO4	Amber Non- Pres.	Poly NaOH	VOCS (Head space?)	Other	Properly Preserved	Bacti	☐ * Internal notification completed for deviations.
		!						*	*	- N. T. S. T. T. T.	
Solids									LAU_	37,40	
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* DEVIATION PRESENT: Solution No Ice Not at Proper Temperature Solution Wrong Container Solution Missing Information: * CLIENT CAI * YES * By Whom: * Curent Cal * On the Cal * On th								Proceed Will Re Provide No Res	i with a esample ed Info ponse;	PONSE: analysis; qualify data () e () rmation () Proceed and qualified () t:	
* Comments:											

Comments/Notes

- Corrosivity/pH
- → Flashpoint
- Paint Filter
- Reactive CyanideReactive Suifide
- TCLP Herbicides
- o TCLP Metals (RCRA-8)
- o TCLP Pesticides
- TCLP Semi-Valatiles
- TCLP Voletiles
- Total PCBs



2105 Pless Drive Brighton, Michigan 48114 Phone (810)229-7575 Fax (810)229-8650 E-mail bai-brighton@sbcglobal.net

April 14, 2020

NEFCO - Detroit 9125 W. Jefferson Detroit, MI 48209

Subject: Monthly Truck Composite March 2020

Monthly Truck Comp 3/2020

Dear Ms. Washington:

Thank you for making Brighton Analytical, L.L.C. your laboratory of choice. Attached are the results for the samples submitted on 03/30/2020 for the above mentioned project. NELAP/TNI Accredited Analysis and EGLE Drinking Water Certified Analysis will be identified in their respective reporting formats. Hard copies can be supplied at your request for a fee of \$20.00 per copy.

The invoice for this project will be emailed separately. If you have any questions concerning the data or invoice, please don't hesitate to contact our office. We welcome your comments and suggestions to improve our quality systems. Please reference Brighton Analytical, L.L.C. Project ID 64456 when calling or emailing. We thank you for this opportunity to partner with you on this project and hope to work with you again in the future.

Sincerely, Brighton Analytical, L.L.C.







Brighton Analytical LLC

2105 Pless Drive Brighton, Michigan 48114 Phone: (810)229-7575 (810)229-8650 e-mail:bai-brighton@sbcglobal.net EGLE Certified #9404 NELAC Accredited #176507

 Sample Date/Time:
 3/29/2020 12

 Submit Date/Time:
 3/30/2020 12

 Report Date:
 4/14/2020

NEFCO - Detroit 9125 W. Jefferson Detroit, MI 48209

BA Project # **64456**BA Sample ID **CM03738**

Project Name: Project Number:

Monthly Truck Composite March 2020

ect Number: Monthly Truck Comp 3/2020
Sample ID: Monthly Truck Comp March 2020

Analyte Name	Result	Units	DL	NEFCO LIMIT	Method Reference	Analysis Date	Analyst
Total Metal Analysis							
Calcium Carbonate (Calc)	4.6	%	0.001		SW846 6020A	04/02/2020	LT
Total Aluminum	4100	mg/Kg	100		SW846 6010B	03/31/2020	LT
Total Arsenic	5.1	mg/Kg	0.1	41	SW846 6020A	04/03/2020	LT
Total Cadmium	1.4	mg/Kg	0.05	39	SW846 6020A	04/03/2020	LT
Total Calcium	18000	mg/Kg	5.0		SW846 6020A	04/03/2020	LT
Total Chromium	51	mg/Kg	0.5		SW846 6020A	04/03/2020	LT
Total Cobalt	15	mg/Kg	0.5		SW846 6020A	04/03/2020	LT
Total Copper	200	mg/Kg	1.0	1500	SW846 6020A	04/03/2020	LT
Total Iron	19000	mg/Kg	2.0		SW846 6020A	04/03/2020	LT
Total Lead	34	mg/Kg	10	300	SW846 6020A	04/03/2020	LT
Total Magnesium	4200	mg/Kg	3.0		SW846 6020A	04/03/2020	LT
Total Manganese	140	mg/Kg	1.0		SW846 6020A	04/03/2020	LT
Total Mercury	0.21	mg/Kg	0.05	17	SW846 7471A	03/31/2020	LS
Total Molybdenum	6.4	mg/Kg	0.1		SW846 6020A	04/03/2020	LT
Total Nickel	32	mg/Kg	1.0	420	SW846 6020A	04/03/2020	LT
Total Potassium	2400	mg/Kg	2.0		SW846 6020A	04/03/2020	LT
Total Selenium	4.2	mg/Kg	0.2	100	SW846 6020A	04/03/2020	LT
Total Sodium	830	mg/Kg	10		SW846 6020A	04/03/2020	LT
Total Zinc	700	mg/Kg	1.0	2800	SW846 6020A	04/03/2020	LT
Metal Soil (digestion)	Digested				3050	03/31/2020	EV
Mercury (digestion)	Digested				7470/7471	03/31/2020	LS
Inorganic Analysis							
Ammonia as Nitrogen	0.048	%	0.0001		EPA 350.1	04/13/2020	RM
Ammonia as Nitrogen	480	mg/Kg	1.0		EPA 350.1	04/13/2020	RM
Chloride (ASTM Leach)	1100	mg/Kg	20		SW846 9056	04/01/2020	RM
Nitrite (ASTM Leach)	2.3	mg/Kg	1.0		SW846 9056	04/01/2020	RM
Nitrogen (Kjeldahl)	4.4	%	0.0001		EPA 351.2	04/02/2020	RM
Nitrogen (Kjeldahl)	44000	mg/Kg	1.0		EPA 351.2	04/02/2020	RM
pH (Soil and Waste)	5.8	S.I.			SW846 9045C	04/03/2020	LS
Phosphate	4.2	%	0.00024		EPA 365.3	04/06/2020	MB
Phosphate P205	6.3	%	0.00024		EPA 365.3	04/06/2020	MB
Phosphate P205	63000	mg/Kg	2.4		EPA 365.3	04/06/2020	MB
Phosphate ppm	42000	mg/Kg	2.4		EPA 365.3	04/06/2020	MB
Phosphorus P205 (total)	32000	mg/Kg	0.2		EPA 365.3	04/06/2020	MB



Brighton Analytical LLC

2105 Pless Drive Brighton, Michigan 48114 Phone: (810)229-7575 (810)229-8650 e-mail:bai-brighton@sbcglobal.net EGLE Certified #9404 NELAC Accredited #176507

 Sample Date/Time:
 3/29/2020 12

 Submit Date/Time:
 3/30/2020 12

 Report Date:
 4/14/2020

NEFCO - Detroit 9125 W. Jefferson Detroit, MI 48209

BA Project # **64456**

BA Sample ID **CM03738**

Project Name: Monthly Truck Composite March 2020

Project Number: Monthly Truck Comp 3/2020

Sample ID: Monthly Truck Comp March 2020

Analyte Name	Result	Units	DL	NEFCO LIMIT	Method Reference	Analysis Date	Analyst
Inorganic Analysis							
Phosphorus P205 (total)	3.2	%	0.00002		EPA 365.3	04/06/2020	MB
Phosphorus (total)	1.4	%	0.00002		EPA 365.3	04/06/2020	MB
Phosphorus (total)	14000	mg/Kg	0.2		EPA 365.3	04/06/2020	MB
Sulfur	3200	mg/Kg	50		5050/9056	03/30/2020	MB
Total Organic Nitrogen	4.4	%	0.0001			04/13/2020	RM
Total Organic Nitrogen	44000	mg/Kg	1.0			04/13/2020	RM
Total Solids	960000000	ug/Kg	10000		EPA 160.3	03/30/2020	LS
Total Volatile Solids	66	%	0.001		SM2540G	03/30/2020	LS
Parr Bomb Prep	Prepped				ASTM D5050	03/30/2020	MB
PCB Analysis							
ARO 1260	820	ug/Kg	330		SW846 8082A	04/02/2020	BY
ARO 1262	Not detected	ug/Kg	330		SW846 8082A	04/02/2020	BY
ARO 1254	Not detected	ug/Kg	330		SW846 8082A	04/02/2020	BY
ARO 1248	Not detected	ug/Kg	330		SW846 8082A	04/02/2020	BY
ARO 1242	Not detected	ug/Kg	330		SW846 8082A	04/02/2020	BY
ARO 1232	Not detected	ug/Kg	330		SW846 8082A	04/02/2020	BY
ARO 1221	Not detected	ug/Kg	330		SW846 8082A	04/02/2020	BY
ARO 1016	Not detected	ug/Kg	330		SW846 8082A	04/02/2020	BY
ARO 1268	Not detected	ug/Kg	330		SW846 8082A	04/02/2020	BY
Total PCB	820	ug/Kg	330		SW846 8082A	04/02/2020	BY
PCB soil extraction	Extracted				3510C/3545	03/30/2020	MB
%Solid	96	%				03/30/2020	LS

RL=Reported detection limit for analytical method requested. Some compounds require special analytical methods to achieve EGLE designated target detection limits (TDL).

Elevated metals dl due to sample matrix.

Released by

4/14/2020

Date

PAGE 1 OF 1 COMPANY/MAILING ADDRESS:	9125 W. Jefferson	Detroit, MI 48033	ATTN: Sherika Washington	PHONE: 313 551-5278	Samples received within hold time? yes no	\	Headspace/bubbles in VOA's? yes no (n'a	Sample containers and COC match? yes no	No lime at	BILLING ADDRESS (IF REQUIRED):			Drinking H2O: FAX TO LCHD yes no	Chlorinated Water Supply? AMT.:	MCL failure: yes no	Client notified (date/time/initials):	"hold" on all analyses.	RECEIVED BY: DATE: TIME:	
BA PROJECT#: Analysis Requested/Method しょくらん	ABBREVIATIONS FOR MATRIX	3 – Sona L = Liquid = Drinking H ₂ 0	0 = 0i $P = Wipes$			Samp	ASS, NO PRES ERILIZED BA 1001 Preserved	S ;	S X X						3		ew. Incorrect or incomplete information will result in a "	TIME: # RELINQUISHED BY:	G. 60 3
Brighton Analytical, L.L.C.TM BA PI cmail: bai-brighton@sbcglobal.net	2105 Pless Drive Phone: 810-229-7575 FOR Brighton, MI 48114 FAX: 810-229-8650	PROJECT NAME: Monthly Truck Composite March 2020		PO #: (PLEASE NOTE IF DIFFERENT BILLING ADDRESS) $T = Tub$	Sample Collected By: SW Container/Onantity		Sample Coll. Oper Union Date Time On's (PRES Oper Union Date Time On's (PRES Oper Union	uck Composite	March 2020	The state of the s	3					Special Instructions:	Please fill out the Chain of Custody completely and review. Incorrect or incomplete information will result in a	RELINQUISHED BY: DATE:	LINE LAND SERVICE STATES

The following are for sample 1	
Solids, Total (TS) [n]	SM 2540 B
Solids, Volatile	EPA 160.4
pH (Hydrogen Ion)	SM 4500-H+ B
Total Kjeldahl Nitrogen, as N (TKN)	SM4500-Norg B
Ammonia Nitrogen, as N (NH3-N)	SM 4500-NH3 B+G
Nitrite Nitrogen, as N (NO2-N)	EPA 300.0
Organic Nitrogen	Calculation
Phosphorous, Total	EPA 365.3
Total Phosphorous as P205	EPA 365.3
Avail Phosphate as P205	EPA 365.3
Potassium, Total for Water and Waster Water	EDA 200 6
by ICP-MS	EPA 200.8
Chloride	EPA 300.0
Total Sulfur	EPA 9056A
Hardness, Total as CaCO3	SM 2340 C
Calcium, Total for Water and Waste Water by	
ICP-MS	EPA 200.8
Iron, Total for Water and Waste Water by ICP-	EDA 200 0
MS	EPA 200.8
Aluminum, Total for Water and Waste Water by ICP-MS	EPA 200.8
Arsenic, Total for Water and Waste Water by ICP-MS	EPA 200.8
Cadium, Total for Water and Waste Water by	EPA 200.8
ICP-MS	
Chromium, Total for Water and Waste Water by ICP-MS	EPA 200.8
Cobalt, Total for Water and Waste Water by ICP-	EPA 200.8
MS	
Copper, Total for Water and Waste Water by ICP-MS	EPA 200.8
Lead, Total for Water and Waste Water by ICP-	EPA 200.8
MS TO ENTRY THE TENTON	
Magnesium, Total for Water and Waste Water by ICP-MS	EPA 200.8
Manganese, Total for Water and Waste Water	EDA 200 9
by ICP-MS	EPA 200.8
Mercury, Total	EPA 245.1
Molybdenum, Total for Water and Waste Water by ICP-MS	EPA 200.8
Nickel, Total for Water and Waste Water by ICP- MS	EPA 200.8
Selenium, Total for Water and Waste Water by ICP-MS	EPA 200.8
Sodium, Total for Water and Waste Water by	in the second section determined by Typical State (each of the second section)
ICP-MS	EPA 200.8
Zinc, Total for Water and Waste Water by ICP- MS	EPA 200.8
Polychlorinated Biphenyls, as Arochlors (PCBs)	EPA 608



BRIGHTON ANALYTICAL, LLC

QUALITY ASSURANCE/QUALITY CONTROL

REPRESENTATIVE BATCH QUALITY CONTROL Accuracy & Precision

Parameter: TKN

Analyst: RM

Analysis Date:	4/2/20	Me	thod Reference:	351.2	0000a
	S	PIKE - ACCUI	RACY		
Laboratory Identification	Spike Conc. (µg/L)	Background (μg/L)	Percent Recoveries	Acceptable Range (%)	Method Blank Concentration
3662 MS/MSD	1000	4,884	91 / 67	90 - 110%	<100
	S	PIKE - PRECI	SION		
Laboratory Identification	Observed A (µg/L)	Observed B (µg/L)	RPD	Acceptable Range	
3662 MS/MSD	5798	5556	4.26	≤ 20%	
	Standard ID #	%Recovery			
Independent Secondary Reference Material:	WP 294	98%			
Method Standard (Laboratory Control Spike):					

COMMENTS:

REPRESENTATIVE BATCH QUALITY CONTROL Accuracy & Precision

Parameter: ___Ammonia Soils___

Analyst: RM

Analysis Date:	4/13/20	Me	350.1		
	S	PIKE - ACCUI	RACY		
Laboratory Identification	Spike Conc. (µg/L)	Background (μg/L)	Percent Recoveries	Acceptable Range (%)	Method Blank Concentration
3738 MS/MSD	500	1,151	83 / 101	80 - 120	<1000 ug/kg
	S	PIKE - PRECI	SION		
Laboratory Identification	Observed A (µg/L)	Observed B (µg/L)	RPD	Acceptable Range	
3738 MS/MSD	1567	1654	5.4	≤ 20%	
	N	MISCELLANE	ous		4
	Standard ID #	%Recovery			
Independent Secondary Reference Material:	WP 270	99%			

COMMENTS:

REPRESENTATIVE BATCH QUALITY CONTROL Accuracy & Precision

Analyst:	MB	Parameter:	PHOS
Analysis Date:	4/6/2020	Method Reference:	365.2

	Sl	PIKE - ACCUI	RACY		
Laboratory Identification	Spike Conc. (µg/L)	Background (µg/L)	Percent Recoveries	Acceptable Range (%)	Method Blank Concentration
WP 294	6810	<200	102/100	90-110	<10
	S	PIKE - PRECI	SION		
Laboratory Identification	Observed A (µg/L)	Observed B (µg/L)	RPD	Acceptable Range	
WP 294	6940	6830	1.60	≤ 20%	
	Ŋ	//ISCELLANE	ous		
	Standard ID #	%Recovery			
Independent Secondary Reference Material:	WP 294	102%			
Method Standard (Laboratory Control Spike):					

COMMENTS:	

ICP-MS METHOD 6020

REPRESENTATIVE BATCH PRECISION AND ACCURACY QUALITY CONTROL SUMMARY

		Marine Annual An	
Matrix Spike Lab II	D: CM03734	Matrix: Soil	Analyst: LT
		de de la color a color de la color actual de alla color de la colo	**************************************
Analysis Date	e: 04/02/2020	Standard ID: 021020 S	Batch: 3/31/2020 S1

	Matrix Spike - F	Precision *	Matrix Spike	e - Accurac	y**		Miscellaneous***			
Metals	Matrix Spike (ug/Kg)	Matrix Spike Dup (ug/Kg)	RPD (%)	Spk Conc (ug/Kg)	MS Recovery (%)	MSD Recovery (%)	Sample Conc (ug/Kg)	Method Blk (ug/Kg)	LCS- Method STD (%)	Ind. Sto SPEX 1&3 (%)
Berylium	87514	89357	2.1	100000	87.0	88.8	550	<100	90.8	91.8
Sodium	898937	925719	2.9	1000000	81.3	84.0	85936	<10000	100.5	92.3
Magnesium	3797586	3844866	1.2	1000000	69.6	74.3	3101790	<1000	93.1	90.9
Potassium	1631986	1634948	0.2	1000000	80.0	80.3	831856	<2000	93.0	90.5
Calcium	3482303	3412416	2.0	1000000	157.6	150.6	1906448	<5000	100.0	91.1
Chromium	99278	101360	2.1	100000	76.5	78.6	22762	<500	93.1	91.1
Manganese	667954	674420	1.0	100000	72.9	79.4	595053	<1000	92.7	90.4
Iron	33776799	33090874	2.1	1000000	0.0	0.0	34269230	<2000	92.6	90.6
Colbalt	86854	87935	1.2	100000	78.6	79.7	8252	<500	94.5	90.7
Nickel	97892	99814	1.9	100000	77.1	79.0	20798	<1000	94.4	91.5
Copper	83101	84873	2.1	100000	77.9	79.6	5230	<1000	95.9	95.1
Zinc	140131	143300	2.2	100000	94.6	97.8	45515	<1000	94.0	90.3
Arsenic	78252	78806	0.7	100000	65.8	66.4	12422	<100	92.3	91.2
Selenium	60701	61142	0.7	100000	60.6	61.0	95	<200	91.6	91.5
Molybdneum	70758	73050	3.2	100000	69.8	72.0	1002	<100	103.3	100.5
Silver	888	891	0.3	1000	83.7	84.0	51	<100	90.1	91.8
Cadmium	86353	86330	0.0	100000	86.3	86.3	33	<50	91.7	90.1
Barium	316060	323644	2.4	100000	73.4	81.0	242614	<1000	94.5	92.4
Lead	123871	124189	0.3	100000	97.9	98.2	25945	<1000	92.0	91.8

Comments:	Mg, Ca, Fe, As Se and Mo out of range due to sample matrix

^{*} Matrix spike precision range +/- 20% RPD

** Matrix spike accuracy range +/- 30% recovery

*** LCS accuracy range +/- 15% recovery / Ind std accuracy range +/- 10% recovery

REPRESENTATIVE BATCH QUALITY CONTROL

Accuracy & Precision

Parameter: pH

Analyst: LS

Analysis Date:	4/3/2020	Me	thod Reference:	SM4500H+B/9040	/9045
-		_		BATCH 1	_
	s	PIKE - ACCU	RACY		
Laboratory ID	True Value	Observed (°F)	DIFFERENCE	Acceptable Range	
VWR 6.00	6.00	6.01	0.01	0.05	
					J
Laboratory ID	Observed A	Observed B	DIFFERENCE	Acceptable Range	
CM03744	8.11	8.10	0.01	0.05	
COMMENTS:					

Ion Chromatograph EPA Method 300.0

Date:	4/1/20	Reviewed by:

Analyst:

RM

ERA Q038

ERA # : WP 294
Exp. Date: Oct-22

Analyte	Sample	LCS	LCS	% Rec.	ERA	ERA TRUE			
· · · · · · · · · · · · · · · · · · ·	Conc	Value	Conc.	LCS	Conc.	Value	%Rec ERA	Control limits	Units
Fluoride	<100	5,000	5,009	100	2,524	2,640	96	90-110%	ug/L
Chloride	<1000	50,000	49,591	99	63,970	66,000	97	90-110%	ug/L
Nitrite	<10	1,000	982	98			-	90-110%	ug/L
Nitrate	<10	1,000	979	98	6,277	6,240	101	90-110%	ug/L
Sulfate	<1000	50,000	49,355	99	26,956	28,200	96	90-110%	ug/L

Sample ID# 3768

Analyte	Sample	Spike	MS	MSD	% Rec	T T			
Analyto	Conc	Value	Conc.	Conc.	MS	% Rec MSD	RPD	Control limits	Units
Fluoride	122	5,000	4,979	4,868	97	95	2.3	80-120%	ug/L
Chloride	350	50,000	49,648	48,465	99	96	2.4	80-120%	ug/L
Nitrite	0	1,000	963	941	96	94	2.3	80-120%	ug/L
Nitrate	0	1,000	940	919	94	92	2.2	80-120%	ug/L
Sulfate	4,822	50,000	53,514	52,415	97	95	2.1	80-120%	ug/L

3985

Analyte	Sample	Spike	MS	MSD	% Rec				
Analyte	Conc	Value	Conc.	Conc.	MS	% Rec MSD	RPD	Control limits	Units
Fluoride	185	5,000	5,123	4,923	99	95	4.0	80-120%	ug/L
Chloride	80,658	50,000	129,223	127,231	97	93	1.6	80-120%	ug/L
Nitrite	0	1,000	963	924	96	92	4.1	80-120%	ug/L
Nitrate	100	1,000	1,066	1,027	97	93	3.7	80-120%	ug/L
Sulfate	27,499	50,000	76,714	74,747	98	94	2.6	80-120%	ug/L

Sample ID# ____

Analyte	Sample Conc	Spike Value	MS Conc.	MSD Conc.	% Rec MS	% Rec MSD	RPD	Control limits	Units
Fluoride		5,000					***************************************	80-120%	ug/L
Chloride		50,000			1			80-120%	ug/L
Nitrite		1,000						80-120%	ug/L
Nitrate		1,000			 		***************************************	80-120%	ug/L
Sulfate		50,000		***************************************				80-120%	ug/L

REPRESENTATIVE BATCH QUALITY CONTROL

Accuracy & Precision

Analyst: LS/MH

Parameter: Mercury

Analysis Date: 03/31/20

Method Reference: 245.1/7470/7471

Matrix: Soil

Batch: S2

		SPIKE - ACC	URACY		
Laboratory ID	Spike Concentration (ug/Kg)	Background (ug/Kg)	Recoveries (%)	Acceptable Range (%)	Method Blank Concentration (ug/Kg)
M. STD 1&2	100	0.0	109 / 107	70 - 130	<50
		SPIKE - ACC	URACY		
Laboratory ID	Observed A (ug/Kg)	Observed B (ug/Kg)	RPD (%)	Acceptable Range (%)	
M. STD 1&2	109	107	1.5	0 - 20	
		SPIKE - ACC	URACY		
		Standard ID#	Recovery (%)	Acceptable Range (%)	
Independent Secondary	Reference Material:	SPEX 033120	92	90 - 110	
Method Standard (Labo	oratory Control Spike	Hg 033120	109	80 - 120	

COMMENTS:	
•	

ICP-OES METHOD 200.7/6010

REPRESENTATIVE BATCH PRECISION AND ACCURACY QUALITY CONTROL SUMMARY

Analysis Date: 03/31/2020	Standard ID: 021020 S	Batch: 3/31/2020 S1
Matrix Spike Lab ID: M. STD 1&2	Matrix: Soil	Analyst: LT

13	Matrix Spike - I	Precision *		Matrix Spike	- Accuracy	**		Miscellaneo	us***	Marie Control of the
Metals	Matrix Spike (ug)	Matrix Spike Dup (ug)	RPD (%)	Spk Conc (ug)	MS Recovery (%)	MSD Recovery (%)	Blank Conc (ug)	Method Blk (ug)	LCS- Method STD (%)	Secondary Source ID (%)
Aluminum	965	971	0.6	1000	96.0	96.6	5.3	<100	96.0	91.4

^{*} Matrix spike precision range +/- 20% RPD

Comments:	

^{**} Matrix spike accuracy range +/- 30% recovery

^{***} LCS accuracy range +/- 15% recovery / Ind std accuracy range +/- 10% recovery



2105 Pless Drive Brighton, Michigan 48114 Phone (810)229-7575 Fax (810)229-8650 E-mail bai-brighton@sbcglobal.net

March 31, 2020

NEFCO - Detroit 9125 W. Jefferson Detroit, MI 48209

Subject: Monthly Fecal Grab March 2020

Monthly Fecal Grab 3/2020

Dear Ms. Washington:

Thank you for making Brighton Analytical, L.L.C. your laboratory of choice. Attached are the results for the samples submitted on 03/30/2020 for the above mentioned project. NELAP/TNI Accredited Analysis and EGLE Drinking Water Certified Analysis will be identified in their respective reporting formats. Hard copies can be supplied at your request for a fee of \$20.00 per copy.

The invoice for this project will be emailed separately. If you have any questions concerning the data or invoice, please don't hesitate to contact our office. We welcome your comments and suggestions to improve our quality systems. Please reference Brighton Analytical, L.L.C. Project ID 64458 when calling or emailing. We thank you for this opportunity to partner with you on this project and hope to work with you again in the future.

Sincerely, Brighton Analytical, L.L.C.







Brighton Analytical LLC

2105 Pless Drive Brighton, Michigan 48114 Phone: (810)229-7575 (810)229-8650 e-mail:bai-brighton@sbcglobal.net EGLE Certified #9404 NELAC Accredited #176507

Sample Date: 03/30/2020 Submit Date: 03/30/2020

Report Date: 03/31/2020

To:

NEFCO - Detroit 9125 W. Jefferson Detroit, MI 48209

BA Report Number: 64458

Parameters

Project Name:

Monthly Fecal Grab March 2020

BA Sample ID: **CM03740**

Project Number: Monthly Fecal Grab 3/2020

DL

Sample ID: Mont

Units

Monthly Fecal Grab March 2020

Analysis Analyst Date

Microbiological Analysis

Fecal coliform

Result

MPN/Gm

1

SM9222 MOD

Method Reference

WT

03/30/2020

DL=Reported detection limit for analytical method requested. Some compounds require special analytical methods to achieve EGLE designated target detection limits (TDL).

0

Released by

Date

3/31/2020

Brighton Analytical, L.L.C.TM email bai-brighton@sbeglobal.net 2105 Pless Drive Phone: 810-229-7575 Brighton, MI 48114 FAX: 810-229-8650 AME: Monthly Fecal Grab March 2020 E. Monthly Fecal Grab March 2020 E. NOTE IF DIFFERENT BILLING ADDRESS) There By: SW The Chain of Day 2X Cost 3 Day = 1.3X											
Phone: 810-229-7575 FAX: 810-229-8650 Ch 2020 Ch 2020 Ch 2020 Ch 2020 Ch 2020 Container Quantity C		Brighton Ana.	lytical, L.L.	C MA	BA PRO	SJECT#:		Analysis Requested/Method	PAGE 1 COMPANY/MA	OF 1 ILING ADDRESS:	
March 2020 March 2020 Ch 2020 Ch 2020 Ch 2020 A = Liquid Do = Gold A = Liquid Ch 2020 A = Liquid Do = Gold A = Liquid A = Liquid Do = Gold A = Liquid A = Liquid A = Liquid Contain recognition Hole Bases) T = Tube M = Miss. Sample Gold A = Receive a variable and review. Incorrect or incomplete information will result in a "hole A = Liquid A =		2105 Pless Drive	Phone: 810-22	9-7575	ABBREV	VIATIONS			25 W.	rson	
March 2020 Co change in the Coll and Parking in a "Hole information will result in a "Hole information will in a "Hole information will result in a "Hole information will in a "Hole information will in a "Hole information will result in a "Hole information wil		Brighton, MI 48114	FAX: 810-229	0598-	S=	Solid			Detroit, MI 4	18209	
Container/Outsite Nation Items: The Parties The Market Nation The Market Nati	CTNA		March 2020		DW = Dr	Liquid inking H ₂ 0					
IT = F = Filter Sample Coll. Sample Coll. Sample Maurix Containing Coll. Table M = Mac. Sample Maurix Sample Maurix Sample Maurix Sample Maurix Sample Maurix Antice Line Hope Lacol Perestred Hope Woolf and review. Incorrect or incomplete information will result in a "hote RECEIVE BY: Part Time Antice Material Maurix Sample Maurix Sample Maurix Sample Maurix Sample Maurix There Sample Maurix Sample Maurix Antice Maurix Sample Maurix Sample Maurix Sample Maurix RECEIVE BY: BATE: Time: ## RELINQUISHED BY: REC		Monthly Fecal Grab Mar	-ch 2020		D=' A=Air	(Feed)				Vashington	
Sample Montage and review. Incorrect or incomplete information will result in a "hole Nameserved" y where they are they	LEASE	NOTE IF DIFFERENT BILLING ADD	(RESS)		F = Tube		xirts.		FACOR EMAIL SWESS	-5278 hington@nefcobiosolids.o	E
Temperature of samples %C. Sample Coll. Times No. 17 Times Times No. 17 Times No. 17 Times	Collecte			Conta	iner/Quant		M əlq		Samples received within	n hold time (Yes) no	
Sample containers and COC match feet in VOA'S' yes no linear time of Castody completely and review. Incorrect or incomplete information will result in a "hold" on all analyses. Sample containers and COC match feet information will result in a "hold" on all analyses. Time: Time: Time: Time: Time: Time: Time: Time: Date: Time: Time: Date: Time: Time: Date: Date	STED 7 -3 busine.	TURNAROUND: (circle one) ss days (verify with lab & specify date needed) 2 Day=2X Cost 3 Day = 1.5X Cost	If RUSH, approved by:	SERVED	eserved?	I A N VCLERV	msZ		Temperature of samples		
The Description Date Time of Sign of S	rd: 5 bus	iness days	Sample Coll.	UNPRE HNO3	NVOH	/B CEZZI	શ		Headspace/bubbles in	yes no	
Pecal Grab March 2020 3-5-2-Lo	Brighton ID#	Sample Description	Time	НОРЕ	чрье Нрье	THELLS	ъэН	(70 ×	Sample containers and C	yes	
SHED BY: RECEIVED BY: Control of Custody completely and review. Incorrect or incomplete information will result in a "hold" on all analyses		Monthly Fecal Grab March 2020	3,20,5			_		CHES	The start		
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Out the Chain of Custody completely and review. Incorrect or incomplete information will result in a "hold" on all analyses. RECEIVED BY: DATE: Times TIME: # RELINQUISHED BY: RECEIVED BY: 3-3-3-3-3-4-4-4-4-4-4-4-4-4-4-4-4-4-4-	l Instr	uctions:			.=				Client notified (date/tirne	e/initials):	
RECEIVED BY: DATE: Time: RELINQUISHED BY: RECEIVED BY: DATE: 3-3-3-3-5 (3-3-4-4-4-4-4-4-4-4-4-4-4-4-4-4-4-4-4-4		Please fill out the Ch	tain of Custody c	ompletely t	ınd revien	v. Incorrec	t or incon	nplete information will result in	"hold" on		
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	7	X		3.30	3236		4				



2105 Pless Drive Brighton, Michigan 48114 Phone (810)229-7575 Fax (810)229-8650 E-mail bai-brighton@sbcglobal.net

May 20, 2020

NEFCO - Detroit 9125 W. Jefferson Detroit, MI 48209

Subject: Monthly Truck Composite April 2020

Monthly Truck Comp 4/20

Dear Ms. Washington:

Thank you for making Brighton Analytical, L.L.C. your laboratory of choice. Attached are the results for the samples submitted on 04/29/2020 for the above mentioned project. NELAP/TNI Accredited Analysis and EGLE Drinking Water Certified Analysis will be identified in their respective reporting formats. Hard copies can be supplied at your request for a fee of \$20.00 per copy.

The invoice for this project will be emailed separately. If you have any questions concerning the data or invoice, please don't hesitate to contact our office. We welcome your comments and suggestions to improve our quality systems. Please reference Brighton Analytical, L.L.C. Project ID 64755 when calling or emailing. We thank you for this opportunity to partner with you on this project and hope to work with you again in the future.

Sincerely, Brighton Analytical, L.L.C.







Brighton Analytical LLC

2105 Pless Drive Brighton, Michigan 48114 Phone: (810)229-7575 (810)229-8650 e-mail:bai-brighton@sbcglobal.net EGLE Certified #9404 NELAC Accredited #176507

 Sample Date/Time:
 4/28/2020 12

 Submit Date/Time:
 4/29/2020 12

 Report Date:
 5/20/2020

NEFCO - Detroit 9125 W. Jefferson Detroit, MI 48209

BA Project # **64755**

BA Sample ID **CM04648**

Project Name: Monthly Truck Composite April 2020

Project Number: Monthly Truck Comp 4/20

Sample ID: Monthly Truck Comp April 2020

Analyte Name	Result	Units	DL	NEFCO LIMIT	Method Reference	Analysis Date	Analyst
Total Metal Analysis							
Calcium Carbonate (Calc)	5.0	%	0.001		SW846 6020A	05/05/2020	LT
Total Aluminum	4000	mg/Kg	100		SW846 6010B	05/01/2020	LT
Total Arsenic	6.9	mg/Kg	0.1	41	SW846 6020A	05/05/2020	LT
Total Cadmium	1.7	mg/Kg	0.05	39	SW846 6020A	05/05/2020	LT
Total Calcium	20000	mg/Kg	5.0		SW846 6020A	05/05/2020	LT
Total Chromium	42	mg/Kg	0.5		SW846 6020A	05/05/2020	LT
Total Cobalt	18	mg/Kg	0.5		SW846 6020A	05/05/2020	LT
Total Copper	190	mg/Kg	1.0	1500	SW846 6020A	05/05/2020	LT
Total Iron	21000	mg/Kg	2.0		SW846 6020A	05/05/2020	LT
Total Lead	38	mg/Kg	1.0	300	SW846 6020A	05/05/2020	LT
Total Magnesium	4900	mg/Kg	3.0		SW846 6020A	05/05/2020	LT
Total Manganese	160	mg/Kg	1.0		SW846 6020A	05/05/2020	LT
Total Mercury	0.18	mg/Kg	0.05	17	SW846 7471A	05/01/2020	LS
Total Molybdenum	5.7	mg/Kg	0.1		SW846 6020A	05/05/2020	LT
Total Nickel	24	mg/Kg	1.0	420	SW846 6020A	05/05/2020	LT
Total Potassium	2700	mg/Kg	2.0		SW846 6020A	05/05/2020	LT
Total Selenium	4.7	mg/Kg	0.2	100	SW846 6020A	05/05/2020	LT
Total Sodium	840	mg/Kg	10		SW846 6020A	05/05/2020	LT
Total Zinc	480	mg/Kg	1.0	2800	SW846 6020A	05/05/2020	LT
Metal Soil (digestion)	Digested				3050	04/30/2020	EV
Mercury (digestion)	Digested				7470/7471	04/30/2020	LS
Inorganic Analysis							
Ammonia as Nitrogen	0.054	%	0.0001		EPA 350.1	05/19/2020	RM
Ammonia as Nitrogen	540	mg/Kg	1.0		EPA 350.1	05/19/2020	RM
Chloride (ASTM Leach)	540	mg/Kg	20		SW846 9056	05/07/2020	RM
Nitrite (ASTM Leach)	Not detected	mg/Kg	1.0		SW846 9056	05/07/2020	RM
Nitrogen (Kjeldahl)	5.8	%	0.0001		EPA 351.2	05/08/2020	RM
Nitrogen (Kjeldahl)	58000	mg/Kg	1.0		EPA 351.2	05/08/2020	RM
pH (Soil and Waste)	6.7	S.I.			SW846 9045C	05/01/2020	LS
Phosphate	3.5	%	0.00024		EPA 365.3	05/07/2020	MB
Phosphate P205	5.2	%	0.00024		EPA 365.3	05/07/2020	MB
Phosphate P205	52000	mg/Kg	2.4		EPA 365.3	05/07/2020	MB
Phosphate ppm	35000	mg/Kg	2.4		EPA 365.3	05/07/2020	MB
Phosphorus P205 (total)	27000	mg/Kg	0.2		EPA 365.3	05/07/2020	MB



Brighton Analytical LLC

2105 Pless Drive Brighton, Michigan 48114 Phone: (810)229-7575 (810)229-8650 e-mail:bai-brighton@sbcglobal.net EGLE Certified #9404 NELAC Accredited #176507

 Sample Date/Time:
 4/28/2020 12

 Submit Date/Time:
 4/29/2020 12

 Report Date:
 5/20/2020

NEFCO - Detroit 9125 W. Jefferson Detroit, MI 48209

BA Project # 6

64755

BA Sample ID

CM04648

Project Name: Project Number: **Monthly Truck Composite April 2020**

Monthly Truck Comp 4/20

Sample ID: Monthly Truck Comp April 2020

Analyte Name	Result	Units	DL	NEFCO LIMIT	Method Reference	Analysis Date	Analyst
Inorganic Analysis							
Phosphorus P205 (total)	2.7	%	0.00002		EPA 365.3	05/07/2020	MB
Phosphorus (total)	1.2	%	0.00002		EPA 365.3	05/07/2020	MB
Phosphorus (total)	12000	mg/Kg	0.2		EPA 365.3	05/07/2020	MB
Sulfur	6200	mg/Kg	50		5050/9056	05/07/2020	MB
Total Organic Nitrogen	5.8	%	0.0001			05/19/2020	RM
Total Organic Nitrogen	58000	mg/Kg	1.0			05/19/2020	RM
Total Solids	960000000	ug/Kg	10000		EPA 160.3	04/30/2020	LS
Total Volatile Solids	70	%	0.001		SM2540G	04/30/2020	LS
Parr Bomb Prep	Prepped				ASTM D5050	05/07/2020	MB
PCB Analysis							
ARO 1260	540	ug/Kg	330		SW846 8082A	05/01/2020	BY
ARO 1262	Not detected	ug/Kg	330		SW846 8082A	05/01/2020	BY
ARO 1254	Not detected	ug/Kg	330		SW846 8082A	05/01/2020	BY
ARO 1248	Not detected	ug/Kg	330		SW846 8082A	05/01/2020	BY
ARO 1242	Not detected	ug/Kg	330		SW846 8082A	05/01/2020	BY
ARO 1232	Not detected	ug/Kg	330		SW846 8082A	05/01/2020	BY
ARO 1221	Not detected	ug/Kg	330		SW846 8082A	05/01/2020	BY
ARO 1016	Not detected	ug/Kg	330		SW846 8082A	05/01/2020	BY
ARO 1268	Not detected	ug/Kg	330		SW846 8082A	05/01/2020	BY
Total PCB	540	ug/Kg	330		SW846 8082A	05/01/2020	BY
PCB soil extraction	Extracted				3510C/3545	04/29/2020	MB
%Solid	96	%			ASTM D2216	04/30/2020	LS

RL=Reported detection limit for analytical method requested. Some compounds require special analytical methods to achieve EGLE designated target detection limits (TDL).

Elevated metals dl due to sample matrix.

Released by

5/20/2020

Date

	Brighton Analytical	Brighton Analytical, L.L.C.TM	BA PROJECT#:	Analysis Requested/Method	PAGE_1_OF_1_COMPANY/MAILING ADDRESS:
	2105 Pless Drive	Phone: 810-229-7575	ABBREVIATIONS		9125 W. Jefferson
	Brighton, MI 48114	FAX: 810-229-8650	FOR MATRIX S = Solid		Detroit, MI 48033
PROJECT NAME:	AME: Monthly Truck Composite April 2020	mposite April 2020	L = Liquid DW = Drinking H ₂ 0		
PROJECT #:	Moi	site April 2020	O = Oil P = Wipes		ATTN: Sherika Washington
PO #: (PLEAS)	PO#: (PLEASE NOTE IF DIFFERENT BILLING ADDRESS)	ODRESS	Air (Tedlar Bag) F = Filter		PHONE: 313 551-5278
			T=Tube M=Misc.	nor.	FAX OR EMAIL'swashington@nefcobiosolids.com
Sample Collected By:	cted By: SW	Contai	Container/Quantity	fle fle	Samples received within hold time? Fes no
REQUESTED	REQUESTED TURNAROUND: (circle one)	If RUSH,	VI RAI		Temperature of samp es °C: 🜾 🖒
Kush: 1-5 business days (ve. 1 Day =2.5X Cost 2 Day=2 Standard: 5 business days	KuSh: 1-2 busmess days (verify with lab & specify date needed) 1 Day = 2.5X Cost 2 Day= 2X Cost 3 Day = 1.5X Cost Standard: 5 business days	Approved by: Resserved by: Resserv	Preserved TAVAEREPATE TAVAEREP	Sheet	pHs verified in login? (65) no
Brighton ID#	Sample Description	0 5.00	INI IBBEL	998	Readspace/bubbles in VOA's? yes no n/a
7578; OKO	Monthly Truck Composite	1	s o v	X	The state of the s
2)					BILLING ADDRESS (IF REQUIRED):
3)					
4)					
5)					
(9)					
(7)					
8)					Drinking H2O: FAX TO LCHD yes no
(6					Chloninated Water Supply? yes no
10)					MCL failure: yes no
Special Instructions:	tructions:			institution of contract of con	Client notified (date/time/initials):
	Please fill out the C	Thain of Custody completely a	nd review. Incorrect o	Please fill out the Chain of Custody completely and review. Incorrect or incomplete information will result in a "hold" on all analyses.	"hold" on all analyses.
Trans. #	RELINQUISHED BY:	RECEIVED BY:	DATE: TIME: #	RELINQUISHED BY:	RECEIVED BY: DATE: TIME:
1	2 told	Sue Sur	4/24/20 9:00 3		
2	こうか	4-76-4-20	3		

The following are for sample 1	
Solids, Total (TS) [n]	SM 2540 B
Solids, Volatile	EPA 160.4
pH (Hydrogen Ion)	SM 4500-H+ B
Total Kjeldahl Nitrogen, as N (TKN)	SM4500-Norg B
Ammonia Nitrogen, as N (NH3-N)	SM 4500-NH3 B+G
Nitrite Nitrogen, as N (NO2-N)	EPA 300.0
Organic Nitrogen	Calculation
Phosphorous, Total	EPA 365.3
Total Phosphorous as P205	EPA 365.3
Avail Phosphate as P205	EPA 365.3
Potassium, Total for Water and Waster Water	EPA 200.8
by ICP-MS	
Chloride	EPA 300.0
Total Sulfur	EPA 9056A
Hardness, Total as CaCO3	SM 2340 C
Calcium, Total for Water and Waste Water by ICP-MS	EPA 200.8
Iron, Total for Water and Waste Water by ICP- MS	EPA 200.8
Aluminum, Total for Water and Waste Water by ICP-MS	EPA 200.8
Arsenic, Total for Water and Waste Water by ICP-MS	EPA 200.8
Cadium, Total for Water and Waste Water by ICP-MS	EPA 200.8
Chromium, Total for Water and Waste Water by ICP-MS	EPA 200.8
Cobalt, Total for Water and Waste Water by ICP- MS	EPA 200.8
Copper, Total for Water and Waste Water by ICP-MS	EPA 200.8
Lead, Total for Water and Waste Water by ICP- MS	EPA 200.8
Magnesium, Total for Water and Waste Water by ICP-MS	EPA 200.8
Manganese, Total for Water and Waste Water by ICP-MS	EPA 200.8
Mercury, Total	EPA 245.1
Molybdenum, Total for Water and Waste Water by ICP-MS	EPA 200.8
Nickel, Total for Water and Waste Water by ICP- MS	EPA 200.8
Selenium, Total for Water and Waste Water by ICP-MS	EPA 200.8
Sodium, Total for Water and Waste Water by ICP-MS	EPA 200.8
Zinc, Total for Water and Waste Water by ICP- MS	EPA 200.8
Polychlorinated Biphenyls, as Arochlors (PCBs)	EPA 608



BRIGHTON ANALYTICAL, LLC

QUALITY ASSURANCE/QUALITY CONTROL

Ion Chromatograph EPA Method 300.0

Date:	5/7/20	Reviewed by:
Analyst:	RM	
		ERA P282
*	The state of the s	ERA#: WP 294

Exp. Date: Oct-22

Analyte	Sample	LCS	LCS	% Rec.	ERA	ERA TRUE			NORTH CONTRACTOR CONTR
Allalyte	Conc	Value	Conc.	LCS	Conc.	Value	%Rec ERA	Control limits	Units
Fluoride	<100	5,000	4,998	100	1,240	1,210	102	90-110%	ug/L
Chloride	<1000	50,000	49,961	100	54,217	55,600	98	90-110%	ug/L
Nitrite	<10	1,000	985	98				90-110%	ug/Ĺ
Nitrate	<10	1,000	993	99	6,376	6,240	102	90-110%	ug/L
Sulfate	<1000	50,000	49,646	99	13,630	14,200	96	90-110%	ug/L

Sample ID# _____ 4990

Analyte	Sample	Spike	MS	MSD	% Rec	T			·····
Allalyte	Conc	Value	Conc.	Conc.	MS	% Rec MSD	RPD	Control limits	Units
Fluoride	926	5,000	5,782	5,705	97	96	1.3	80-120%	ug/L
Chloride	6,207	50,000	54,914	54,372	97	96	1.0	80-120%	ug/L
Nitrite	0	1,000	967	954	97	95	1.3	80-120%	ug/L
Nitrate	0	1,000	959	948	96	95	1.2	80-120%	ug/L
Sulfate	6,092	50,000	54,207	53,634	96	95	1.1	80-120%	ug/L

Analyte	Sample	Spike	MS	MSD	% Rec				
Analyte	Conc	Value	Conc.	Conc.	MS	% Rec MSD	RPD	Control limits	Units
Fluoride		5,000					***************************************	80-120%	ug/L
Chloride		50,000						80-120%	ug/L
Nitrite		1,000						80-120%	ug/L
Nitrate		1,000					***************************************	80-120%	ug/L
Sulfate		50,000			A CONTROL CONTRACTOR OF THE PROPERTY OF THE PR	\$1000000000000000000000000000000000000		80-120%	ug/L

Sample ID#

Analyte	Sample	Spike	MS	MSD	% Rec	T T			
Allalyte	Conc	Value	Conc.	Conc.	MS	% Rec MSD	RPD	Control limits	Units
Fluoride		5,000					·	80-120%	ug/L
Chloride		50,000						80-120%	ug/L
Nitrite		1,000						80-120%	ug/L
Nitrate		1,000						80-120%	ug/L
Sulfate		50,000						80-120%	ug/L

REPRESENTATIVE BATCH QUALITY CONTROL Accuracy & Precision

Parameter: TKN

Analyst: RM

zmarysis Date.	3/8/20	IVIC	mod Reierence:	351,2	una
	S	PIKE - ACCUI	RACY		
Laboratory Identification	Spike Conc. (µg/L)	Background (μg/L)	Percent Recoveries	Acceptable Range (%)	Method Blank Concentration
4633 MS/MSD	1000	6,321	93 / 127	90 - 110%	<100
	S	PIKE - PRECI	SION		
Laboratory Identification	Observed A (μg/L)	Observed B (µg/L)	RPD	Acceptable Range	
4633 MS/MSD	7255	7590	4.51	≤ 20%	
	Standard ID#	%Recovery			
Independent Secondary Reference Material:	WP 294	99%			
Method Standard (Laboratory Control Spike):					

COMMENTS:

REPRESENTATIVE BATCH QUALITY CONTROL Accuracy & Precision

Analyst:	RM	Parameter: _	Ammonia Soils
Analysis Date:	5/19/20	Method Reference:	350.1

	S	PIKE - ACCUI	RACY						
Laboratory Identification	Spike Conc. (μg/L)	Background (μg/L)	Percent Recoveries	Acceptable Range (%)	Method Blank Concentration				
4648 MS/MSD	500	1,303	110 / 130	80 - 120	<1000 ug/kg				
	S	PIKE - PRECI	SION						
Laboratory Identification	Observed A (µg/L)	Observed B (µg/L)	RPD	Acceptable Range					
4648 MS/MSD	1855	1951	5.0	≤ 20%					
MISCELLANEOUS									
	Standard ID #	%Recovery							
Independent Secondary Reference Material:	WP 270	98%							

COMMENTS:	

REPRESENTATIVE BATCH QUALITY CONTROL

Accuracy & Precision

Analyst:	MB	Parameter:	PHOS
Analysis Date:	5/7/2020	Method Reference:	365.2

SPIKE - ACCURACY							
Laboratory Identification	Spike Conc. (µg/L)	Background (µg/L)	Percent Recoveries	Acceptable Range (%)	Method Blank Concentration		
WP 294	6810	<200	100/101	90-110	<200		
	\mathbf{s}	PIKE - PRECI	SION	Section 2			
Laboratory Identification	Observed A (µg/L)	Observed B (μg/L)	RPD	Acceptable Range			
WP 294	6770	6900	1.90	≤ 20%			
	10 - 10 - 10 - 10 - 10 - 10 - 10 - 10 -	MISCELLANE	OUS		Africa Part of purify		
Standard ID # %Recovery							
Independent Secondary Reference Material:	WP 294	100%					
Method Standard (Laboratory Control Spike):							

COMMENTS:	

ICP-MS **METHOD 6020**

REPRESENTATIVE BATCH PRECISION AND ACCURACY QUALITY CONTROL SUMMARY

Analysis Date: 05/05/2020	Standard ID: 021020 S	Batch: 4/30/2020 S1
Matrix Spike Lab ID: CM04646	Matrix: Soil	Analyst: LT

	Matrix Spike - F	Precision *		Matrix Spike - Accuracy**			Miscellaneous***			
Metals	Matrix Spike (ug/Kg)	Matrix Spike Dup (ug/Kg)	RPD (%)	Spk Conc (ug/Kg)	MS Recovery (%)	MSD Recovery (%)	Sample Conc (ug/Kg)	Method Blk (ug/Kg)	LCS- Method STD (%)	Ind. Ste SPEX 1&3 (%)
Berylium	115610	117508	1.6	100000	115.5	117.4	157	<100	95.1	91.5
Sodium	1102305	1089027	1.2	1000000	102.6	101.2	76731	<10000	104.8	92.2
Magnesium	12277972	10974038	11.2	1000000	48.0	0.0	11798400	<1000	97.5	93.7
Potassium	1247452	1279293	2.5	1000000	100.7	103.9	240125	<2000	99.7	95.5
Calcium	36046932	30006482	18.3	1000000	588.5	0.0	30162081	<5000	99.0	90.5
Chromium	108109	107916	0.2	100000	103.3	103.1	4825	<500	96.9	95.9
Manganese	301332	299815	0.5	100000	145.6	144.1	155738	<1000	97.0	93.7
Iron	8038883	7620888	5.3	1000000	161.4	119.6	6425316	<2000	97.0	94.3
Colbalt	105533	104023	1.4	100000	102.9	101.4	2630	<500	98.7	98.3
Nickel	105746	105212	0.5	100000	100.1	99.5	5667	<1000	97.9	96.1
Copper	107279	107190	0.1	100000	100.1	100.0	7184	<1000	98.8	100.0
Zinc	117756	114709	2.6	100000	97.5	94.4	20275	<1000	92.9	90.0
Arsenic	95831	94743	1.1	100000	90.0	88.9	5853	<100	95.7	94.0
Selenium	88023	86761	1.4	100000	88.0	86.7	66	<200	95.0	94.1
Molybdneum	97459	98572	1.1	100000	97.0	98.1	479	<100	97.9	96.8
Cadmium	111403	114387	2.6	100000	111.3	114.3	82	<50	94.9	94.6
Barium	131487	136173	3.5	100002	117.2	121.9	14261	<1000	94.8	94.6
Lead	123107	123356	0.2	100000	116.2	116.5	6902	<1000	92.4	95.9

Comments:	Mg, Ca, Mn, and Fe out of range due to sample matrix.

^{*} Matrix spike precision range +/- 20% RPD

** Matrix spike accuracy range +/- 30% recovery

*** LCS accuracy range +/- 15% recovery / Ind std accuracy range +/- 10% recovery

REPRESENTATIVE BATCH QUALITY CONTROL

Accuracy & Precision

Parameter: PCB

Analyst: BY

Analysis Date:	5/1/2020	Method Reference:		EPA 8082A			
Matrix:	Soil	-	Batch: _	04/29/20MBRG			
		SPIKE - ACCUI	RACY				
Laboratory ID CM04620	Spike Conc. (μg/mL)	Background (µg/mL)	% Recovery	Acceptable Range (%)	Method Blank Concentration		
DCB (Surrogate)	0.50	ND	104 / 108	50 - 130	115%		
Aroclor 1260	1.0	ND	79 / 85	50 - 130	<330 μg/Kg		
		SPIKE - PRECI	SION				
Laboratory ID CM04620	Observed A (μg/mL)	Observed B (µg/mL)	RPD	Acceptable Range	LCS % Recovery		
DCB (Surrogate)	0.52	0.54	3.6	≤ 20%	98%		
Aroclor 1260	0.79	0.85	6.8	≤ 20%	74%		
MISCELLANEOUS							
	Standard ID#						
DCB (Surrogate)	#2939.4						
Aroclor 1260	#4105						

COMMENTS:

REPRESENTATIVE BATCH QUALITY CONTROL

Accuracy & Precision

Parameter: pH

Analyst: LS

Analysis Date: _	5/1/2020	Method Reference: SM4500H+B/9040/9045				
ana.	**************************************	-mag		BATCH 2		
	S	PIKE - ACCU	RACY			
Laboratory ID	True Value	Observed (°F)	DIFFERENCE	Acceptable Range		
VWR 6.00	6.00	6.00	0	0.05	<u> </u>	
					<u> </u>	
Laboratory ID	Observed A	Observed B	DIFFERENCE	Acceptable Range		
CM04711	7.55	7.53	0.02	0.05		
			<u> </u>		[
COMMENTS:						

ICP-OES METHOD 6010

REPRESENTATIVE BATCH PRECISION AND ACCURACY QUALITY CONTROL SUMMARY

 Analysis Date:
 05/01/2020
 Standard ID:
 040220 H20
 Batch:
 4/30/2020 T1

 Matrix Spike Lab ID:
 M. STD 1&2
 TCLP/Soil
 Analyst:
 LT

	Matrix Spike - I	Precision *		Matrix Spik	Matrix Spike - Accuracy**			Miscellaneous***		
Metals			Spk Conc (ug/L)	MS Recovery (%)	MSD Recovery (%)	Blank Conc (ug/L)	Method Blk (ug/L)	LCS- Method STD (%)	Ind. Sta SPEX 1&3 (%)	
Aluminum	876	878	0.2	1000	87.6	87.8	0	<100	87.6	90.1
Cadmium	987	989	0.2	1000	98.7	98.9	0	<40	98.7	98.7
Chromium	1016	1016	0.0	1000	101.6	101.6	0	<10	101.6	100.2
Lead	1034	1038	0.4	1000	103.4	103.8	0	<100	103.4	101.8

^{*} Matrix spike precision range +/- 20% RPD

Comments:	

^{**} Matrix spike accuracy range +/- 30% recovery

^{***} LCS accuracy range +/- 15% recovery / Ind std accuracy range +/- 10% recovery

REPRESENTATIVE BATCH QUALITY CONTROL

Accuracy & Precision

Analyst:	LS	Parameter:	Mercury
Analysis Date:	05/01/20	Method Reference:	245.1/7470/7471
Matrix:	Soil	Batch:	ŠÍ

		SPIKE - ACC	URACY		
Laboratory ID	Spike Concentration (ug/Kg)	Background (ug/Kg)	Recoveries (%)	Acceptable Range (%)	Method Blank Concentration (ug/Kg)
M.STD 1 &2	100	0.0	100 / 100	70 - 130	<50
		SPIKE - ACC	URACY		·
Laboratory ID	Observed A (ug/Kg)	Observed B (ug/Kg)	RPD (%)	Acceptable Range (%)	
M.STD 1 &2	100	100	0.0	0 - 20	
		SPIKE - ACC	URACY		L
		Standard ID#	Recovery (%)	Acceptable Range (%)	
Independent Secondary	Reference Material:	SPEX 050120	93	90 - 110	
Method Standard (Labo	ratory Control Spike	Hg 050120	100	80 - 120	

OMMENTS:	



2105 Pless Drive Brighton, Michigan 48114 Phone (810)229-7575 Fax (810)229-8650 E-mail bai-brighton@sbcglobal.net

April 30, 2020

NEFCO - Detroit 9125 W. Jefferson Detroit, MI 48209

Subject: Monthly Fecal Grab April 2020

Monthly Fecal Grab 4/20

Dear Ms. Washington:

Thank you for making Brighton Analytical, L.L.C. your laboratory of choice. Attached are the results for the samples submitted on 04/29/2020 for the above mentioned project. NELAP/TNI Accredited Analysis and EGLE Drinking Water Certified Analysis will be identified in their respective reporting formats. Hard copies can be supplied at your request for a fee of \$20.00 per copy.

The invoice for this project will be emailed separately. If you have any questions concerning the data or invoice, please don't hesitate to contact our office. We welcome your comments and suggestions to improve our quality systems. Please reference Brighton Analytical, L.L.C. Project ID 64757 when calling or emailing. We thank you for this opportunity to partner with you on this project and hope to work with you again in the future.

Sincerely, Brighton Analytical, L.L.C.







Brighton Analytical LLC

2105 Pless Drive Brighton, Michigan 48114 Phone: (810)229-7575 (810)229-8650 e-mail:bai-brighton@sbcglobal.net EGLE Certified #9404 NELAC Accredited #176507

Sample Date: 04/29/2020 Submit Date: 04/29/2020

Report Date: 04/30/2020

CM04650

To:

NEFCO - Detroit 9125 W. Jefferson Detroit, MI 48209

BA Report Number: 64757

757 Project Name:

Monthly Fecal Grab April 2020

Project Number:

Result

Monthly Fecal Grab 4/20

DL

Sample ID:

Monthly Fecal Grab April 2020

Analysis Analyst Date

Microbiological Analysis

Parameters

Fecal coliform

BA Sample ID:

0

MPN/Gm

Units

1

SM9222 MOD

Method Reference

WT

04/29/2020

DL=Reported detection limit for analytical method requested. Some compounds require special analytical methods to achieve EGLE designated target detection limits (TDL).

Released by

Date

4/30/2020

	email: hai brichton@chadohal nat	email: bei-brichton Geboulchel nat	į.	6475	757	Analysis Requested/Method	1 PAGE 1 OF 1 COMPANY/MAILING ADDRESS:	VILING ADDRES	S:
	2105 Pless Drive	Phone: 810-229-7575	29-7575	ABBREVIATIONS FOR MATRIX	CIONS		9125 W. Jefferson	rson	
	Brighton, MI 48114	FAX: 810-229-8650	.0598-63	S = Solid			Detroit, MI 48209	48209	
PROJECT NAME:	AME: Monthly Fecal Grab April 2020	April 2020		DW = Drinking H ₂ 0	ng H ₂ 0		- 1		
PROJECT #:	Monthly Fecal Grab April 2020	il 2020·		P = Wipes A = Air (Tedler Box)			ATTN: Sherika V	Sherika Washington	
PO #: (PLEAS	PO#: (PLEASE NOTE IF DIFFERENT BILLING ADDRESS)	ORESS)		F = Filter T = Tube M = Misc.			FAX OR EMAIL swashington@nefcobiosolids.com	551-52/8 swashington@nefco	biosolid
Sample Collected By:	cted By: SW		Cont	Container/Quantity	ple M		Samples received within hold time?	in hold time? 🗷	оп
REQUESTEI Rush: 1-3 busi 1 Day =2.5X Co	REQUESTED TURNAROUND: (circle one) Rush: 1-3 business days (verify with lab & specify date needed) 1 Day =2.5X Cost 2 Day=2X Cost 3 Day =1.5X Cost	If RUSH, approved by:	SEKAED) A N N/V	eserved?			Temperature of samples °C: pHs verified in login 'ye	s°C: 4.3	ac.
Standard: 5 business days	ousiness days	Sample Coll.	INO3	AVOH	oaalasal	Įį.	Headspace/bubbles in VOA's?	VOA's' ves no	6/9
Brighton ID#	Sample Description	Date Time	нрье т		MEOH B	soa4	Sample containers and COC match?	9	E
ud 4650	Monthly Fecal Grab April 2020	स्ट्रिक अन्तर			S	X			
2)							BILLING ADDRESS (IF REQUIRED);	IF REQUIRED):	
3)							1692		S.
4)									
5)									
(9									
(7	T.								
(8)							Drinking H2O: FAX	FAX TO LCHD yes	no
(6							Chlorinated Water Supply?	? yes	ou
(0)							MCL failure: yes no	01	
Special Instructions:	tructions:						Client notified (date/time/initials):	ne/initials):	
	Please fill out the C	hain of Custody	completely	and review. I	ncorrect or	Please fill out the Chain of Custody completely and review. Incorrect or incomplete information will result in a	t in a "hold" on all analyses.		
Trans.	RELINQUISHED BY:	RECEIVED BY:	3Y:	DATE: TI	TIME: #	RELINQUISHED BY:	RECEIVED BY:	DATE: T	TIME:
	Med h	me al	316	4/29/20 9	3				
7	17.4	letter)	4.	29×06 1	4				



6/29/2020

Nefco-Detroit
Sherika Washington
Ref: Analytical Testing

Report Number: 20-171-0001 Project Description: NEFCO

Dear Sherika Washington:

Waypoint Analytical Virginia, Inc. received sample(s) on 6/19/2020 for the analyses presented in the following report.

The above referenced project has been analyzed per your instructions. The analyses were performed in accordance with the applicable analytical method. Sub-contracted testing is noted on the Sample Summary Table if applicable.

The analytical data has been validated using standard quality control measures performed as required by the analytical method. Quality Assurance, method validations, instrumentation maintenance and calibration for all parameters (NELAP and non-NELAP) were performed in accordance with guidelines established by the USEPA (including 40 CFR 136 Method Update Rule May 2012) and NELAC unless otherwise indicated.

Certain parameters (chlorine, pH, dissolved oxygen, sulfite...) are required to be analyzed within 15 minutes of sampling. Usually, but not always, any field parameter analyzed at the laboratory is outside of this holding time. Refer to sample analysis time for confirmation of holding time compliance.

The results are shown on the attached Report of Analysis(s). Results for solid matrices are reported on an asreceived basis unless otherwise indicated. This report shall not be reproduced except in full and relates only to the samples included in this report.

Please do not hesitate to contact me or client services if you have any questions or need additional information.

Sincerely,

Pauric McGroary

Agronomist

Laboratory's liability in any claim relating to analyses performed shall be limited to, at laboratory's option, repeating the analysis in question at laboratory's expense, or the refund of the charges paid for performance of said analysis.



Sample Summary Table

Report Number: 20-171-0001

Client Project Description: NEFCO

Lab No	Client Sample ID	Matrix	Date Collected	Date Received	Method	Lab ID
72699	NEFCO-composite	Solids	06/16/2020	06/19/2020		
72699	NEFCO-composite	Solids	06/16/2020	06/19/2020	SM-2540G	WP MTN -
72699	NEFCO-composite	Solids	06/16/2020	06/19/2020	SW-7471B	WP MTN -
72699	NEFCO-composite	Solids	06/16/2020	06/19/2020	SM-4500-NH3C-TKN	WP MTN -
72699	NEFCO-composite	Solids	06/16/2020	06/19/2020	4500NO3F-2011	WP MTN -
72699	NEFCO-composite	Solids	06/16/2020	06/19/2020	6010D	WP MTN -
72699	NEFCO-composite	Solids	06/16/2020	06/19/2020	SM-4500-NH3C	WP MTN -
72699	NEFCO-composite	Solids	06/16/2020	06/19/2020	8081A	WP MTN -
72699	NEFCO-composite	Solids	06/16/2020	06/19/2020	8260B	WP MTN -
72699	NEFCO-composite	Solids	06/16/2020	06/19/2020	8270D	WP MTN -
72699	NEFCO-composite	Solids	06/16/2020	06/19/2020	9045D	WP MTN -
72699	NEFCO-composite	Solids	06/16/2020	06/19/2020	SM-2320 B	WP MTN -



12824

Nefco-Detroit

Sherika Washington

Report Number: 20-171-0001

Project

NEFCO

Information:

Report Date: 06/29/2020 Received: 06/19/2020

Paurie

Mc George

REPORT OF ANALYSIS

Pauric McGroary Agronomist

Lab No : 72699 Matrix: Solids

Sample ID : NEFCO-composite Sampled: 6/16/2020 0:00

Test	Results	Units	MQL	DF	Date / Time Analyzed	Ву	Analytical Method
Moisture	4.39	%	0.010	1	06/22/20 16:16	FMM	SM-2540G
Test	Results	Units	MQL	DF	Date / Time Analyzed	Ву	Analytical Method
Alkalinity (as CaCO3)	3710	mg/Kg - dry	104	1	06/24/20 09:32	CMF	SM-2320 B
Ammonia Nitrogen	454	mg/Kg - dry	26.1	1	06/26/20 15:00	JPJ	SM-4500-NH3C
Nitrate+Nitrite-N	13.0	mg/Kg - dry	5.10	1	06/25/20 14:36	ZBD	4500NO3F-2011
Organic N	41400	mg/Kg - dry	261	1	06/25/20 10:00		CALCULATION
pH	6.0	s.u.		1	06/25/20 06:56	JSL	9045D
Total Solids	95.6	%	0.010	1	06/22/20 16:16	FMM	SM-2540G
Total Volatile Solids	68.6	%	0.010	1	06/22/20 16:16	FMM	SM-2540G
Total Kjeldahl Nitrogen	41800	mg/Kg - dry	261	1	06/25/20 10:00	JPJ S	6M-4500-NH3C-TKN
Phosphorus	13100	mg/Kg - dry	26.1	5	06/25/20 18:33	JTR	6010D
Arsenic	8.86	mg/Kg - dry	0.522	1	06/25/20 18:28	JTR	6010D
Cadmium	1.46	mg/Kg - dry	0.105	1	06/24/20 18:10	TJS	6010D
Copper	214	mg/Kg - dry	0.523	1	06/24/20 18:10	TJS	6010D
Lead	42.9	mg/Kg - dry	0.313	1	06/25/20 18:28	JTR	6010D
Mercury	0.269	mg/Kg - dry	0.0155	1	06/24/20 12:14	DDB	SW-7471B
Molybdenum	6.42	mg/Kg - dry	0.261	1	06/24/20 18:10	TJS	6010D
Nickel	31.8	mg/Kg - dry	0.261	1	06/24/20 18:10	TJS	6010D
Potassium	2360	mg/Kg - dry	52.3	5	06/25/20 18:33	JTR	6010D

Qualifiers/ Definitions DF

Dilution Factor

MQL

Method Quantitation Limit

L Limit Exceeded



12824

Nefco-Detroit

Sherika Washington

Report Number: 20-171-0001

Project

NEFCO

Information:

Report Date: 06/29/2020 Received: 06/19/2020

Paurie

Mc George

REPORT OF ANALYSIS

Pauric McGroary Agronomist

Lab No: **72699** Matrix: **Solids**

Sample ID : NEFCO-composite Sampled: 6/16/2020 0:00

Test	Results	Units	MQL	DF	Date / Time Analyzed	Ву	Analytical Method
Selenium	3.31	mg/Kg - dry	0.522	1	06/24/20 18:10	TJS	6010D
Zinc	619	mg/Kg - dry	1.31	1	06/24/20 18:10	TJS	6010D
Analytical Method: 8081A Prep Method: 3546		Prep Batch(es):	L497731 06/23/2	0 10:0	0		
Test	Results	Units	MQL	DF	Date / Time Analyzed	Ву	Analytical Batch
Aldrin	<28.8	μg/Kg - dry	28.8	10	06/26/20 16:06	VIC	L498625
Chlordane	<288	μg/Kg - dry	288	10	06/26/20 16:06	VIC	L498625
4,4'-DDD	<28.8	μg/Kg - dry	28.8	10	06/26/20 16:06	VIC	L498625
4,4'-DDE	<28.8	μg/Kg - dry	28.8	10	06/26/20 16:06	VIC	L498625
4,4'-DDT	<28.8	μg/Kg - dry	28.8	10	06/26/20 16:06	VIC	L498625
Dieldrin	<28.8	μg/Kg - dry	28.8	10	06/26/20 16:06	VIC	L498625
gamma-BHC	<28.8	μg/Kg - dry	28.8	10	06/26/20 16:06	VIC	L498625
Heptachlor	<28.8	μg/Kg - dry	28.8	10	06/26/20 16:06	VIC	L498625
Toxaphene	<2880	μg/Kg - dry	2880	10	06/26/20 16:06	VIC	L498625
Surrogate: Decachlorobiphenyl Surrogate: Tetrachloro-m-xylene		75.3 46.9	Limits: 37-165% Limits: 18-158%		10 06/26/20 16:0 10 06/26/20 16:0		

Qualifiers/ Definitions DF

Dilution Factor

MQL

Method Quantitation Limit



12824

Nefco-Detroit

Project NEFCO

Sherika Washington

Report Number: 20-171-0001

Report Date : 06/29/2020 Information : Received : 06/19/2020

Paurie

Mc Georg

REPORT OF ANALYSIS

Pauric McGroary Agronomist

Lab No : **72699** Matrix: **Solids**

60.9

Sample ID: NEFCO-composite Sampled: 6/16/2020 0:00

Analytical Method: 8260B Prep Batch(es): L498491 06/25/20 07:53 5030A Prep Method: Test Results Units MQL DF Date / Time By Analytical Analyzed **Batch** Trichloroethene μg/Kg - dry <6.54 6.54 1 06/25/20 11:14 RED L498497 Surrogate: 4-Bromofluorobenzene 112 Limits: 60-130% 1 06/25/20 11:14 RED L498497 129 Limits: 60-132% 1 06/25/20 11:14 L498497 Surrogate: 1,2-Dichloroethane - d4 RED Limits: 70-130% 1 06/25/20 11:14 Surrogate: Toluene-d8 109 L498497 Analytical Method: 8270D Prep Batch(es): **L497593** 06/22/20 13:30 Prep Method: 3546 Results Units MQL DF Date / Time Ву **Analytical** Test Analyzed Batch Benzo(a)pyrene μg/Kg - dry <9520 9520 L497968 10 06/24/20 16:57 MLR Hexachlorobenzene μg/Kg - dry <24300 24300 10 06/24/20 16:57 MLR L497968 Hexachlorobutadiene μg/Kg - dry <24300 24300 10 06/24/20 16:57 MLR L497968 N-Nitrosodiethylamine <24300 μg/Kg - dry 24300 L497968 10 06/24/20 16:57 MLR 60.0 L497968 Surrogate: 2-Fluorobiphenyl Limits: 20-120% 10 06/24/20 16:57 MLR Limits: 22-120% 10 06/24/20 16:57 L497968 Surrogate: Nitrobenzene-d5 57.6 MLR

Qualifiers/ Definitions DF

Surrogate: 4-Terphenyl-d14

Dilution Factor

MQL

Limits: 22-120%

Method Quantitation Limit

10 06/24/20 16:57 MLR

L497968



Client: Nefco-Detroit CASE NARRATIVE

Project: NEFCO

Lab Report Number: 20-171-0001

Date: 6/29/2020

High Temp/Pressure Extraction for OC Pests Method 3546

Sample 72699 (NEFCO-composite) QC Batch No: L497731/L497731

The weight/volume extracted was reduced during the extraction procedure due to the nature of the sample.

Reporting limits are factored for the sample size reduction.

High Temp/Pressure Extraction for 8270 Method 3546

QC Batch No: L497593/L497593

The weight/volume extracted was reduced during the extraction procedure due to the nature of the sample. Reporting limits are factored for the sample size reduction.



Shipment Receipt Form

Customer Number: 12824 Customer Name: **Nefco-Detroit** 20-171-0001 Report Number: **Shipping Method** Fed Ex **US Postal** () Lab Other: UPS Client Courier Thermometer ID: Yes () No Shipping container/cooler uncompromised? 1 Number of coolers/boxes received Custody seals intact on shipping container/cooler? Yes No Not Present Not Present Yes No Custody seals intact on sample bottles? Chain of Custody (COC) present? Yes No COC agrees with sample label(s)? Yes No No COC properly completed Yes Samples in proper containers? Yes No Yes No Sample containers intact? Sufficient sample volume for indicated test(s)? Yes No All samples received within holding time? Yes ()No Yes Cooler temperature in compliance? No Cooler/Samples arrived at the laboratory on ice. Yes No Samples were considered acceptable as cooling process had begun. Water - Sample containers properly preserved Yes No N/A Water - VOA vials free of headspace Yes No N/A Yes N/A No Trip Blanks received with VOAs Soil VOA method 5035 - compliance criteria met Yes No N/A Low concentration EnCore samplers (48 hr) High concentration container (48 hr) High concentration pre-weighed (methanol -14 d) Low conc pre-weighed vials (Sod Bis -14 d) Yes No Special precautions or instructions included? Comments:

Signature: Brandi Watson Date & Time: 06/19/2020 11:53:29

Relinquished By: (Signature)	Grab ——Grab ——Compo ——Compo ——Compo ——Compo	Grab ——Grab ——Compo ——Compo ——Compo ——Compo	Grab ——Grab ——Compo	Compo	Compo	Grab	NEKCO A Grab Composite	Sample ID (Lab Use Only) Type	Lab Number		Project Phone: 3)	Shevi		WAST 7621 White	
Date Time (6 17 10 15 0	Date (ا م)	Date	osite		site	site	10/1 - 10/10/20	Date Time	Collection Information	100,00,0	Phone: 3/2551 5775	Ka. Washington	Submitted By	WASTEWATER SAMPLE TRAN Waypoint 7621 Whitepine Road Richmond VA 23237 Tel: 804-743-940 Customer In	
E C		3			PG		A X B	Number Type of Bottles	Containe	Sample Information	Fax:3/3.	NEXC		Waypoint 3237 Tel: 804-743-940 Customer Inf	
			Received By: (Signature)	Glass oz pint qt	Glass — oz pint — pint qt	Glass — oz pint — pint qt	Glass 32 oz pint VIC	pe Volume	Container Information	ormation	Fax:313,406.3981	0		Nefco-Detroit	
A STATE OF THE PERSON NAMED IN COLUMN TWO IS NOT THE PERSON NAMED IN C			Date				Horb. Pust.		Please W		E-mail: Swas	Detroit (skalitsond)			
Special Instructions or Remarks			Time				(see that and)		Please Write in Desired Tests	Stellas Interior	subshireton a refrobability.			20-171-0001 12824 06-19-2020 11:45:54	
or Domorko	-									Selver Constitution	robacklids.com		0	Y	
Special Instructions or Remarks														Account #	

in the second	Units
Parameter	
Percent Solids	%
Volatile Solids	%
pH 🗸	SU
Alkalinity as CaCO ₃ ⁽³⁾	mg/kg
Nitrogen, (Nitrate)	mg/kg
Nitrogen, (Ammonium)	mg/kg
Nitrogen, (Total Kjeldahl)	mg/kg
Phosphorus, (Total)	mg/kg
Potassium, (Total)	mg/kg
Arsenic /	mg/kg
Cadmium /	mg/kg
Copper /	mg/kg
Lead ~	mg/kg
Mercury /	mg/kg
Molybdenum /	mg/kg
Nickel	mg/kg
Selenium	mg/kg
Zinc /	mg/kg

And

Parameter
Aldrin/dieldrin (total)
Benzo (a) pyrene
Chlordane
DDT/DDE/DDD (total)(2)
Dimethyl nitrosamine

ntrations ⁽¹⁾
_ mg/kg
mg/kg
mg/kg
mg/kg
mg/kg



Heptachlor
Hexachlorobenzene
Hexachlorobutadiene
Lindane
Toxaphene
Trichloroethylene

91311	_ mg/kg
91251	_ mg/kg
91251	_ mg/kg
9 1311	_ mg/kg
91311	_ mg/kg
SIIII	_ mg/kg

